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#### Counterplan text: The Committee on the Peaceful use of Outer Space ought to

* **establish an application system for property rights on celestial bodies.**
* **Applications and approval of property rights should be granted upon the condition of open disclosure of data gathered in the exploration of a celestial body**
* **Applications must be publicly announced**
* **Property Rights will be made tradeable between private entities**
* **Property Rights will be set to expire on the conclusion of a successful extraction mission**
* **Private Entities will only be allowed one property right grant per celestial body and cannot have more than one grant at a time**

#### The counterplan establishes international norms for safe extraction of resources on celestial bodies while increasing R&D in outer space.

**Steffen 21** [Olaf Steffen, Olaf is a scientist at the Institute of Composite Structures and Adaptive Sytems at the German Aerospace Center. 12-2-2021, "Explore to Exploit: A Data-Centred Approach to Space Mining Regulation," Institute of Composite Structures and Adaptive Systems, German Aerospace Center, [https://www.sciencedirect.com/science/article/pii/S0265964621000515 accessed 12/12/21](https://www.sciencedirect.com/science/article/pii/S0265964621000515%20accessed%2012/12/21)] Adam

4. The data-centred approach to space mining regulation

4.1. Core description of the regulatory regime and mining rights acquisition process

The data gathered in the exploration of a [celestial body](https://www.sciencedirect.com/topics/social-sciences/astronomical-systems) is not only of value for space mining companies for informing them whether, where and how to exploit resources from the body in question, but also for science. The irretrievability of information relating to the solar system contained in the body that will be lost during resource exploitation carries a value for humanity and future generations and can thus be assigned the characteristic of a common heritage for all mankind as invoked in the Moon Agreement. This characteristic makes exploration data an exceptional and unique candidate for use in a mechanism for acquiring mining rights because its preservation is of public interest and its disclosure in exchange for exclusive mining rights does not place any additional burden on the mining company. The following principles would form the cornerstones of the proposed regulatory regime and rights acquisition mechanism based on exploration data:

Without preconditions, no entity has a right to mine the resources of a celestial body.

An international regulatory body administers the existing rights of companies for mining a specific celestial body.

Mining rights to such bodies can be applied for from this international regulatory body, with applications made public. The application expires after a pre-set period.

Mining rights are granted on the provision and disclosure of exploration data on the celestial body within the pre-set period, proposedly gathered in situ, characterising this body and its resources in a pre-defined manner.

The explorer's mining right to the resources of the celestial body is published by the regulatory body in a mining rights grant.

The data concerning the celestial body are made public as part of the rights grant within the domain of all participating members of the regulatory regime.

The exclusive mining rights to any specific body are tradeable.

The scope of the regulatory body with respect to the granting of mining rights is not revenue-oriented.

The international regulatory body would thus act as a curator of a rights register and an attached database of exploration data. The concept is superficially comparable to patent law, where exclusive rights are granted following the disclosure of an invention to incentivise the efforts made in the development process. In the following section, the characteristics of such a regulatory regime are further discussed with respect to the formation of [monopolies](https://www.sciencedirect.com/topics/social-sciences/monopolies), market dynamics, conflict avoidance, inclusivity towards less developed countries and the viability of implementation.

4.2. Discussion and means of implementation

The proposed regulatory mechanism has advantages both from a business/investor and society perspective. First, it prevents already highly capitalised companies from acquiring exploitation rights in bulk to deny competitors those objects that are easiest to exploit or most valuable, which would otherwise be possible in any kind of pay-for-right mechanism and could result in preventing market access to smaller, emerging companies. Thus, early monopoly formation can be avoided.

The use of data disclosure for the granting of mining rights ensures the scientific community has access to this invaluable source of information. In this way, space mining prospecting missions can lead to a boost in research on small celestial bodies at a speed unmatchable by pure government/agency funded science probes. This usefulness to the scientific community could lead to sustained partnerships between prospecting companies and scientific institutions and could even provide a source of funding for the companies through R&D grants and public-private partnerships. The results of the exploration efforts contribute to research on the formation of planets and the history of the solar system and provide valuable insight for space defence against asteroids. The transition of exploration from a tailored mission profile with a purpose-built spacecraft to a standard task in space flight would also lead to a cost reduction of the respective exploration spacecraft through [economies of scale](https://www.sciencedirect.com/topics/social-sciences/economies-of-scale). This describes the very benefits Elvis [[24](https://www.sciencedirect.com/science/article/pii/S0265964621000515" \l "bib24)] and Crawford [[25](https://www.sciencedirect.com/science/article/pii/S0265964621000515" \l "bib25)] imagined as possible effects of a space economy. Thus, there is an immediate return for society from the exploitation rights grant. It also reconciles the adverse interests of space development and [space science](https://www.sciencedirect.com/topics/social-sciences/space-sciences) as laid out by Schwartz [[26](https://www.sciencedirect.com/science/article/pii/S0265964621000515" \l "bib26)]. It ensures that, by exploitation, information contained in celestial bodies is not lost for future generations.The application period should not be set in a manner that creates a situation that can be abused through the potential for stockpiling inventory rights. Rather, it is intended to prevent conflict in the phase before exploration data gathered by a mission, as a prerequisite to the mining rights grant, is available. In other words, only one exploration effort at a time can be permitted for a specific body. The time frame between the application and the granting of mining rights (meaning: availability of the required exploration data set) should be tight and should only consider necessary exploration time on site, transit time and possibly a reasonable launch preparation and data processing markup. These contributors to the application period make it clear that the time frame could be dynamic and individualistic, depending on the exploration target (transit time and duration of exploration) and the technology of the exploration probe (transit time). After the expiration of the application period, applications for the exploration target would again be permissible. To prevent the previously mentioned stockpiling of inventory rights, credible proof of an imminent exploration intention would need to be part of the application process, for example, a fixed launch contract or the advanced build status of the exploration probe. Such a mechanism would not contradict the statement in the OST that outer space shall be free for both exploration and scientific investigation. Applications would not apply to purely scientific exploration. An application would only be necessary as a prerequisite for mining. Even resource prospecting could take place without an application (for whatever reason), with a subsequent application comprising in situ data already gathered. For such cases, the application process would need to provide a short period for objections to enable the secretive explorer to make their efforts public. The publication of the application for the mining rights, which is nothing more than a statement of intention to explore, thus provides a strong measure for avoiding conflict.

The transparency of where exploration spacecraft are located and, at a later stage, where mining activities take place, provides additional benefits for the sustainable use of space, trust building and deterrence against malign misuse of mining technology. Involuntary spacecraft collisions of competitors in deep space are prevented by the reduction of exploration efforts at the same destination through the application for mining rights by one applicant at a time. As pointed out by Newman and Williamson [[20](https://www.sciencedirect.com/science/article/pii/S0265964621000515" \l "bib20)], this is relevant because space debris does not de-orbit in deep space as in the case of LEO. Deep space may be vast, but the velocities involved mean that small debris particles are no less dangerous. Considering NEO mining with fleets of small spacecraft, malfunctions and/or destructive events could create debris clouds crossing Earth's orbit around the sun on a regular basis, presenting another danger to satellites in Earth's own orbit. Thus, by effectively preventing the collision of two spacecraft, one source of debris creation can be mitigated through this regulation mechanism. With respect to Deudney's [[11](https://www.sciencedirect.com/science/article/pii/S0265964621000515" \l "bib11)] scepticism of asteroid mining and the dual-use character of technology to manipulate orbits of celestial bodies, it has to be stated that this potential is truly inherent to asteroid mining. An asteroid redirect mission for scientific purposes was pursued by NASA [[49](https://www.sciencedirect.com/science/article/pii/S0265964621000515" \l "bib49)] before reorientation towards a manned lunar mission. In one way or another, each type of asteroid mining will require the delivery of the targeted resource to a destination via a comparable technology as formerly envisioned by NASA, be it as a raw material or a useable resource processed in situ, even if this is not necessarily done through redirecting the whole asteroid and placing it in a lunar orbit. However, to be misused as a weapon, space mined resources would have to surpass a certain mass threshold to survive atmospheric entry at the target. This seems unfeasible for currently discussed mining concepts using small-scale spacecraft as described in this article. Redirecting larger masses or whole asteroids would require far more powerful mining vessels or small amounts of thrust over long periods of time. The continuous, (for a mining activity) untypical change in the orbit of an asteroid would make a redirect attempt with hostile intent easily identifiable, effectively deterring such an activity in the first place by ensuring the identification of the aggressor long before the projectile hits its target. The proposed database would provide a catalogue of asteroids with exploration and mining activities in place that should be tracked more closely because of their interaction with spacecraft. This would, in fact, be necessary per se as a precaution to avoid catastrophic mishaps, such as the accidental change of a NEO's orbit to intercept Earth by changing its mass through mining.

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#### Commercial mining solves extinction from scarcity, climate, terror, war, and disease.

Pelton 17—(Director Emeritus of the Space and Advanced Communications Research Institute at George Washington University, PHD in IR from Georgetown).. Pelton, Joseph N. 2017. The New Gold Rush: The Riches of Space Beckon! Springer. Accessed 8/30/19.

Are We Humans Doomed to Extinction? What will we do when Earth’s resources are used up by humanity? The world is now hugely over populated, with billions and billions crammed into our overcrowded cities. By 2050, we may be 9 billion strong, and by 2100 well over 11 billion people on Planet Earth. Some at the United Nations say we might even be an amazing 12 billion crawling around this small globe. And over 80 % of us will be living in congested cities. These cities will be ever more vulnerable to terrorist attack, natural disaster, and other plights that come with overcrowding and a dearth of jobs that will be fueled by rapid automation and the rise of artifi cial intelligence across the global economy. We are already rapidly running out of water and minerals. Climate change is threatening our very existence. Political leaders and even the Pope have cautioned us against inaction. Perhaps the naysayers are right. All humanity is at tremendous risk. Is there no hope for the future? This book is about hope. We think that there is literally heavenly hope for humanity. But we are not talking here about divine intervention. We are envisioning a new space economy that recognizes that there is more water in the skies that all our oceans. Th ere is a new wealth of natural resources and clean energy in the reaches of outer space—more than most of us could ever dream possible. There are those that say why waste money on outer space when we have severe problems here at home? Going into space is not a waste of money. It is our future. It is our hope for new jobs and resources. The great challenge of our times is to reverse public thinking to see space not as a resource drain but as the doorway to opportunity. The new space frontier can literally open up a “gold rush in the skies.” In brief, we think there is new hope for humanity. We see a new a pathway to the future via new ventures in space. For too long, space programs have been seen as a money pit. In the process, we have overlooked the great abundance available to us in the skies above. It is important to recognize there is already the beginning of a new gold rush in space—a pathway to astral abundance. “New Space” is a term increasingly used to describe radical new commercial space initiatives—many of which have come from Silicon Valley and often with backing from the group of entrepreneurs known popularly as the “space billionaires.” New space is revolutionizing the space industry with lower cost space transportation and space systems that represent significant cost savings and new technological breakthroughs. “New Commercial Space” and the “New Space Economy” represent more than a new way of looking at outer space. These new pathways to the stars could prove vital to human survival. If one does not believe in spending money to probe the mysteries of the universe then perhaps we can try what might be called “calibrated greed” on for size. One only needs to go to a cubesat workshop, or to Silicon Valley or one of many conferences like the “Disrupt Space” event in Bremen, Germany, held in April 2016 to recognize that entrepreneurial New Space initiatives are changing everything [ 1 ]. In fact, the very nature and dimensions of what outer space activities are today have changed forever. It is no longer your grandfather’s concept of outer space that was once dominated by the big national space agencies. The entrepreneurs are taking over. The hopeful statements in this book and the hard economic and technical data that backs them up are more than a minority opinion. It is a topic of growing interest at the World Economic Forum, where business and political heavyweights meet in Davos, Switzerland, to discuss how to stimulate new patterns of global economic growth. It is even the growing view of a group that call themselves “space ethicists.” Here is how Christopher J. Newman, at the University of Sunderland in the United Kingdom has put it: Space ethicists have offered the view that space exploration is not only desirable; it is a duty that we, as a species, must undertake in order to secure the survival of humanity over the longer term. Expanding both the resource base and, eventually, the habitats available for humanity means that any expenditure on space exploration, far from being viewed as frivolous, can legitimately be rationalized as an ethical investment choice. (Newman) On the other hand there are space ethicists and space exobiologists who argue that humans have created ecological ruin on the planet—and now space debris is starting to pollute space. Th ese countervailing thoughts by the “no growth” camp of space ethicists say we have no right to colonize other planets or to mine the Moon and asteroids—or at least no right to do so until we can prove we can sustain life here on Earth for the longer term. However, for most who are planning for the new space economy the opinion of space philosophers doesn’t really fl oat their boat. Legislators, bankers, and aspiring space entrepreneurs are far more interested in the views of the super-rich capitalists called the space billionaires. A number of these billionaires and space executives have already put some very serious money into enterprises intent on creating a new pathway to the stars. No less than five billionaires with established space ventures—Elon Musk, Paul Allen, Jeff Bezos, Sir Richard Branson, and Robert Bigelow—have invested millions if not billions of dollars into commercializing space. They are developing new technologies and establishing space enterprises that can bring the wealth of outer space down to Earth. This is not a pipe dream, but will increasingly be the economic reality of the 2020s. These wealthy space entrepreneurs see major new economic opportunities. To them space represents the last great frontier for enterprising pioneers. Th us they see an ever-expanding space frontier that offers opportunities in low-cost space transportation, satellite solar power satellites to produce clean energy 24h a day, space mining, space manufacturing and production, and eventually space habitats and colonies as a trajectory to a better human future. Some even more visionary thinkers envision the possibility of terraforming Mars, or creating new structures in space to protect our planet from cosmic hazards and even raising Earth’s orbit to escape the rising heat levels of the Sun in millennia to come. Some, of course, will say this is sci-fi hogwash. It can’t be done. We say that this is what people would have said in 1900 about airplanes, rocket ships, cell phones and nuclear devices. The skeptics laughed at Columbus and his plan to sail across the oceans to discover new worlds. When Thomas Jefferson bought the Louisiana Purchase from France or Seward bought Alaska, there were plenty of naysayers that said such investment in the unknown was an extravagant waste of money. A healthy skepticism is useful and can play a role in economic and business success. Before one dismisses the idea of an impending major new space economy and a new gold rush, it might useful to see what has already transpired in space development in just the past five decades. The world’s first geosynchronous communications satellite had a throughput capability of about 500 kb / s. In contrast, today’s state of the art Viasat 2 —a half century later— has an impressive throughput of some 140 Gb/s. Th is means that the relative throughput is nearly 300,000 greater, while its lifetime is some ten times longer (Figs. 1.1 and 1.2 ). Each new generation of communications satellite has had more power, better antenna systems, improved pointing and stabilization, and an extended lifetime. And the capabilities represented by remote sensing satellites , meteorological satellites , and navigation and timing satellites have also expanded their capabilities and performance in an impressive manner. When satellite applications first started, the market was measured in millions of dollars. Today commercial satellite services exceed a quarter of a billion dollars. Vital services such as the Internet, aircraft traffi c control and management, international banking, search and rescue and much, much more depend on application satellites. Th ose that would doubt the importance of satellites to the global economy might wish to view on You Tube the video “If Th ere Were a Day Without Satellites?” [ 2 ]. Let’s check in on what some of those very rich and smart guys think about the new space economy and its potential. (We are sorry to say that so far there are no female space billionaires, but surely this, too, will come someday soon.) Of course this twenty-fi rst century breakthrough that we call the New Space economy will not come just from new space commerce. It will also come from the amazing new technologies here on Earth. Vital new terrestrial technologies will accompany this cosmic journey into tomorrow. Information technology, robotics, artificial intelligence and commercial space travel systems have now set us on a course to allow us humans to harvest the amazing riches in the skies—new natural resources, new energy, and even totally new ways of looking at the purpose of human existence. If we pursue this course steadfastly, it can be the beginning of a New Space renaissance. But if we don’t seek to realize our ultimate destiny in space, Homo sapiens can end up in the dustbin of history—just like literally millions of already failed species. In each and every one of the five mass extinction events that have occurred over the last 1.5 billion years on Earth, some 50–80 % of all species have gone the way of the T. Rex, the woolly mammoth, and the Dodo bird along with extinct ferns, grasses and cacti. On the other hand, the best days of the human race could be just beginning. If we are smart about how we go about discovering and using these riches in the skies and applying the best of our new technologies, it could be the start of a new beginning for humanity. Konstantin Tsiokovsky, the Russian astronautics pioneer, who fi rst conceived of practical designs for spaceships, famously said: “A planet is the cradle of mankind, but one cannot live in a cradle forever.” Well before Tsiokovsky another genius, Leonardo da Vinci, said, quite poetically: “Once you have tasted flight, you will forever walk the earth with your eyes turned skyward, for there you have been, and there you will always long to return.” The founder of the X-Prize and of Planetary Resources, Inc., Dr. Peter Diamandis, has much more brashly said much the same thing in quite diff erent words when he said: “The meek shall inherit the Earth. The rest of us will go to Mars.” The New Space Billionaires Peter Diamandis is not alone in his thinking. From the list of “visionaries” quoted earlier, Elon Musk, the founder of SpaceX; Sir Richard Branson, the founder of Virgin Galactic; and Paul Allen, the co-founder of Microsoft and the man who financed SpaceShipOne, the world’s first successful spaceplane have all said the future will include a vibrant new space economy. Th ey, and others, have said that we can, we should and we soon shall go into space and realize the bounty that it can offer to us. Th e New Space enterprise is today indeed being led by those so-called space billionaires , who have an exciting vision of the future. They and others in the commercial space economy believe that the exploitation of outer space may open up a new golden age of astral abundance. They see outer space as a new frontier that can be a great source of new materials, energy and various forms of new wealth that might even save us from excesses of the past. Th is gold rush in the skies represents a new beginning. We are not talking about expensive new space ventures funded by NASA or other space agencies in Europe, Japan, China or India. No, these eff orts which we and others call New Space are today being forged by imaginative and resourceful commercial entrepreneurs. Th ese twenty-fi rst century visionaries have the fortitude and zeal to look to the abundance above. New breakthroughs in technology and New Space enterprises may be able to create an “astral life raft” for humanity. Just as Columbus and the Vikings had the imaginative drive that led them to discover the riches of a new world, we now have a cadre of space billionaires that are now leading us into this New Space era of tomorrow. These bold leaders, such as Paul Allen and Sir Richard Branson, plus other space entrepreneurs including Jeff Bezos of Amazon and Blue Origin, and Robert Bigelow, Chairman of Budget Suites and Bigelow Aerospace, not only dream of their future in the space industry but also have billions of dollars in assets. These are the bright stars of an entirely new industry that are leading us into the age of New Space commerce. These space billionaires, each in their own way, are proponents of a new age of astral abundance. Each of them is launching new commercial space industries. They are literally transforming our vision of tomorrow. These new types of entrepreneurial aerospace companies—the New Space enterprises—give new hope and new promise of transforming our world as we know it today. The New Space Frontier What happens in space in the next few decades, plus corresponding new information technologies and advanced robotics, will change our world forever. These changes will redefi ne wealth, change our views of work and employment and upend almost everything we think we know about economics, wealth, jobs, and politics. Th ese changes are about truly disruptive technologies of the most fundamental kinds. If you thought the Internet, smart phones, and spandex were disruptive technologies, just hang on. You have not seen anything yet. In short, if you want to understand a transition more fundamental than the changes brought to the twentieth century world by computers, communications and the Internet, then read this book. There are truly riches in the skies. Near-Earth asteroids largely composed of platinum and rare earth metals have an incredible value. Helium-3 isotopes accessible in outer space could provide clean and abundant energy. There is far more water in outer space than is in our oceans. In the pages that follow we will explain the potential for a cosmic shift in our global economy, our ecology, and our commercial and legal systems. These can take place by the end of this century. And if these changes do not take place we will be in trouble. Our conventional petro-chemical energy systems will fail us economically and eventually blanket us with a hydrocarbon haze of smog that will threaten our health and our very survival. Our rare precious metals that we need for modern electronic appliances will skyrocket in price, and the struggle between “haves” and “have nots” will grow increasingly ugly. A lack of affordable and readily available water, natural resources, food, health care and medical supplies, plus systematic threats to urban security and systemic warfare are the alternatives to astral abundance. The choices between astral abundance and a downward spiral in global standards of living are stark. Within the next few decades these problems will be increasingly real. By then the world may almost be begging for new, out of- the-box thinking. International peace and security will be an indispensable prerequisite for exploitation of astral abundance, as will good government for all. No one nation can be rich and secure when everyone else is poor and insecure. In short, global space security and strategic space defense, mediated by global space agreements, are part of this new pathway to the future.

#### Resource scarcity coming now and causes extinction—asteroid mining is the only way to solve

Crombrugghe 18 – Guerric, Business Development Manager Brussels, Brussels Capital Region, “Asteroid mining as a necessary answer to mineral scarcity”, LinkedIn, 1/11/2018, <https://www.linkedin.com/pulse/asteroid-mining-necessary-answer-mineral-scarcity-de-crombrugghe>

We need minerals, and we always will. Yet, our reserves are finite and a 100% end-of-life recycling rate is impossible to achieve. Eventually, new entrants will therefore be required to sustain our system. While the business case for asteroid mining can obviously not be closed with current technologies, it will someday become a necessity. We may as well start preparing ourselves. Scarcity of resources, the challenge of the 21st century According to the World Bank, in 2016 humanity's growth rate was of 1.18% in terms of population, and 2.50% in terms of GDP. Both of these, in turn, drive our staggering resource consumption: there are more of us, and each of us needs more. On the other, the Earth is a closed system, and resources are only available in a finite amount. We all know by now that there is only this much oil & gas, but the same can actually be said for water, arable land, minerals, etc. These two simple observations have sparkled the debate around the scarcity of resources. Even with the best intentions, mathematics teaches us that it is impossible to indefinitely extract resources from a given finite supply [1]. The problem arising in the short-term is the exhaustion of the existing supply. That limit is actually coming in fast. In a paper published in 2007, Stephen Kessler demonstrates that the global mineral reserves are only sufficient for the next 50 years. The figure on the right shows the ratio of known global reserve to global annual consumption, given a rough indication of adequacy in years. It dates from an earlier paper, published in 1994. Since then, the development of environmental-friendly technologies (e.g. batteries, electric engines, etc.) has drastically increased the consumption rate of high-tech metals such as cobalt, platinum, rare earths, or titanium. On the other hand, exploration programs have allowed to discover new deposits, notably of gold and diamond. We will certainly be able to continue to increase - or at least sustain - our reserves, but only temporarily. Recycling and other temporary fixes An obvious solution is recycling, i.e. rejuvenating our stocks. A popular concept to illustrate this idea is that of urban mining: retrieving the ores present in smartphones and other electronic devices. It may prove to be not only more environmental-friendly, be also safer and more cost-effective. Nevertheless, every solution based on recycling is, again, nothing more than a temporary fix, buying us a finite amount of time. The United Nations Environment Programme studied in a report the current recycling rate of 60 metals. More than half of them have an end-of-life recycling rate below 1%, and less than one-third are above 50%. Nickel, for example, is relatively easy to retrieve, with and end-of-life recycling rate of up to 63% under the best conditions. At that rate, less than 1% of the initial stock is available after only 10 cycle. Even with a staggering 99% efficiency, the same 1% limit is achieved in less than 460 cycles. Not bad, of course, but still not enough. Should our hunger for resources continue, and even with the most optimised recycling techniques, a second problem will arise in the longer term: the amount of resources needed at a given time will simply exceed the total available stock. Unless we manage to find growth vectors that do not require raw materials, that tipping point is an impassable limit. Its proximity obviously depends on our consumption rate. Asteroid mining? No matter which way we look at it, we will thus be short on resources, either through sheer exhaustion (i.e. transformation in an unrecoverable form) or because the demand will exceed the total reserves. We can - and should - talk about recycling, dematerialisation, and other more ethically questionable solutions such as bio-engineering. Nonetheless, no matter how good they are, these are only temporary fixes. If we don't radically change our lifestyle, we will sooner or later have to address the elephant in the room: the Earth is a closed system, we need new entrants. How can space help? Short answer: all these minerals can be found in space. Some are difficult to obtain, others are even more difficult, none are straightforward. The most accessible destination is near-Earth asteroids, a reservoir of over 17,000 known - and counting - giant rocks that regularly cross the orbit of our planet. They are commonly classified in three main families. The most interesting one, for our case, is that of the S-type asteroids. These are metallic bodies, containing first and foremost nickel, iron and cobalt, but also gold, ores from the platinum group. But the list doesn't stop there, many other minerals can be found in smaller amounts: iridium, silver, osmium, palladium, rhenium, rhodium, ruthenium, manganese, molybdenum, aluminium, titanium, etc. How do we get there? Let's take an example: Ryugu, formerly known as 1999 JU3. It's a C-type asteroid measured to be approximately one kilometre in size [2]. In addition to nickel, iron and cobalt, it also contains a fair share of water, nitrogen, hydrogen, and ammonia. Its total value is estimated to be approximately 80 billion USD. Fantastic! But how do we get there and, most importantly, how much does it cost? Well, we may have the start of an answer to these questions. Reaching Ryugu is a technological challenge, but it is feasible. In December 2014, the Japanese space agency has launched a spacecraft, Hayabusa2, heading to the asteroid. Its mission includes the collection of a small sample which will be sent back to the Earth, with a landing planned for December 2020. The target for the sample size is at least 100 µg. The total cost of the mission was projected to be around 200 million USD. That's 2 trillion USD per gram. Let's be optimistic and assume that the sample retrieved is pure gold. At today's rate, it is worth 42.5 USD per gram. That's a difference of over 10 orders of magnitude. Some may argue that Hayabusa2 has many other objectives that retrieving a sample. The mission does indeed include multiple landers, thorough scientific investigations, etc. There is actually another asteroid sample return mission underway, which we could you as a second point of comparison: OSIRIS-Rex, from NASA. It's heading for Bennu, also a C-type asteroid, which it will reach in August 2018. Total cost of the mission: 980 million USD. Target sample size: at least 60 g. We achieve thus roughly speaking 16 million USD per gram. Better, but still 6 orders of magnitude off compared to pure gold. It's pretty much as good as it gets with existing state-of-the-art technologies. Not much of a business case. Should we forget about it? Referring back to our earlier conclusion on resource scarcity, we had two options. Either we drastically reduce our resource consumption, to such a degree that reserves can last for longer than humanity itself, or we extend our closed system, the Earth, to nearby asteroids. In the current state of affairs, I am honestly not sure which course of action is the easiest. As they get increasingly rare, the cost of minerals will go up. On the other hand, as explained in a previous article, we can expect the cost of space activities to go steadily down. Step by step, these 6 orders of magnitude will slowly get munched away from both ends, until eventually asteroid mining becomes a viable operation. In other words: it will only become financially interesting once minerals become a thousand times more expensive and space activities a thousand times cheaper. As a point of reference, the introduction of reusable rockets by SpaceX, widely considered as one of the few truly disruptive changes in the aerospace sector in the last few decades, has "only" brought a cost reduction of 30%. While it's clearly amazing, we still need at least 220 innovations of the same calibre [3] before we can make it work (again: assuming the price of minerals simultaneously goes up by a factor of a thousand). It's therefore quite likely that space mining will not take place within our lifetime [4]. How can we accelerate the process? Firstly, we can only celebrate and support the numerous private initiatives which contribute to make that reality happen, either indirectly (e.g. launchers, space systems, etc.) or directly (e.g. in-space manufacturing, lunar exploration, etc.). Shout out to all the folks who manage to keep the flame of space exploration burning while generating profit for their investors. Secondly, space agencies and other institutional actors should continue to act as promoters of pioneering mission such as Hayabusa2, OSIRIS-REx, or DART. We can only regret that the Asteroid Redirect Mission from NASA and the Asteroid Impact Mission from ESA were not funded. From my perspective, these should actually be amongst the top priorities of our space exploration agenda. Not only are they instrumental to our understanding of the solar system, but they are also essential if we want to avoid the same fate as the dinosaurs. It's a question of survival. As a bonus, they also pave the way towards cost-efficient asteroid mining. In the meantime, we might want to consume existing resources a bit more efficiently.

#### Resource Shortages Exacerbate Conflict

Wingo 13 - Dennis Wingo, Former CTO of the Orbital Recovery Corporation, Founder & CEO of Skycorp Inc, and Greentrail Energy Inc., Co-Founder & CTO of Orbital Recovery Inc. Leader of NASA's the Lunar Orbiter Image Recovery Project (LOIRP), First in history to rescue and operate a spacecraft (ISEE-3) in interplanetary space, and University of Alabama in Huntsville Consortium for Materials Development in Space Researcher At University of Alabama in Huntsville Consortium for Materials Development in Space “Commentary | The Inevitability of Extraterrestrial Mining”, *Space News*, 7/29/2013, https://spacenews.com/36511the-inevitability-of-extraterrestrial-mining/

I am honored to provide the counterpoint to my esteemed colleague Ambassador Roger Harrison’s negative contention concerning the mining of extraterrestrial materials off of planet Earth. Let’s begin with his ending: “The conclusion is inescapable, though liable to be escaped, i.e., that raw materials will never be mined in space and sold profitably within the atmosphere or anywhere else. … Asteroids will continue unvexed in their obits, and the Moon too.” I bring a different quote, from the book “Empire Express,” the story of the intercontinental railroad, from U.S. Army Lt. Zebulon Pike, for whom Pike’s Peak is named: “In various places there were tracts of many leagues, where the wind had thrown up sand in all the fanciful forms of the ocean’s rolling wave, and on which not a spear of vegetable matter existed.” Pike’s visions of sand dunes, pathless wastes and sterile soils were reported, widely read and faithfully believed by geographers. The myth became innocently embellished by subsequent visitors, especially those in the party of Maj. Stephen H. Long, who traversed the whole area in 1820. It was reported to be “an unfit residence for any but a nomad population … forever to remain the unmolested haunt of the native hunter, the bison, and the jackal.” The delicious irony is that Mr. Harrison today lives in the shadow of Pike’s Peak, and the U.S. Air Force Academy where he teaches is in the middle of the confidently prophesied unmolested haunt. When Long’s report was written, the Erie Canal across New York was five years from completion and it was another 31 years before the first railroad was completed across the state. Mr. Harrison’s technical objections are for the most part valid today for his scenario, just as objections to a railroad across the North American continent were valid in the 1820s. However, technology is being developed today that will enable extraterrestrial mining, manufacturing and development just as technology was developed that would enable the creation of the national railroad. Mr. Harrison says it is an illusion that we are running out of resources. He is correct. That is not our claim. The claim is that extraction costs of economically viable terrestrial resources are rising dramatically and may soon exceed the cost of extraction from much more plentiful extraterrestrial sources. Today rapidly advancing costs and diminishing returns are rapidly redefining mining due to diminishing ore grades. This fact is developed in a 2012 distinguished lecture by Dan Wood before the Society of Environmental Geologists, “Crucial Challenges to Discovery and Mining — Tomorrow’s Deeper Ore Bodies.” This is a vitally important issue to solve as resource conflict has been the impetus for most wars in human history. We live in a global civilization of over 7 billion people, which will expand to over 9 billion before plateauing in mid-century. While American politicians are not paying attention to what this means, the rest of the world is noticing. Gross domestic product (GDP) growth and increasing global resource demand are addressed in “Iron Ore Outlook 2050,” a report commissioned for the Indian government. The GDP of the major powers (the United States, Europe, China, India and Japan) is forecast to rise from $48 trillion in 2010 to $149 trillion by 2050. The report’s substance is that with this massive increase in global GDP, an intensifying scramble for metal resources is inevitable. If the trend of resource consumption demand increase continues unabated, there are three likely potential outcomes. The first is collapse, forecast by the “Limits to Growth” school of thought. The second and more likely scenario is fierce national economic competition leading to wars over diminishing resources. The third, and most desirable, is to increase the global resource base by the economic and industrial development of the inner solar system. Mr. Harrison uses cost as the primary reason that extraterrestrial mining will never happen by focusing on a straw man argument related to mining asteroids in orbits far from Earth. Just as the U.S. railroad infrastructure began on shorter routes with lower capital requirements and shorter payback periods, asteroid mining can begin with our nearest neighbor, the Moon, where telepresence robotics, high-bandwidth communications and a short three-day trip for humans negate his premise. We know from the Apollo samples that plentiful metallic asteroidal materials exist in the lunar highlands. We also know from several missions that extensive water, titanium, thorium, uranium, aluminum and native iron all exist on the Moon, in easily separable oxide form. Improvements in remote sensing data from current missions and computer modeling continue to increase the amount of potential asteroidal material on the Moon, increasing confidence in the Moon first premise. The extensive resources of the Moon become the catalyst for an inner solar system-wide economy providing fuel, vehicles and the all-important experience in developing an industrial infrastructure off planet. The asteroids then become the force multiplier of inner solar system development with billions of tons of water, metals and free space energy from solar power. Mars figures in here as well as the second home of humanity, creating further demand for asteroidal resources, and providing something else that is becoming increasingly scarce on the Earth: hope for the future. The technical barriers that Mr. Harrison points to are being overcome just as those of the 19th century were. New technology developments in 3-D printing, additive manufacturing and advanced robotics are breaking down the final barriers to exploiting off-planet resources and indeed the industrial development of the inner solar system. It is not a question if, it is a question of when, and by whom. Just as the Pacific Railway Act of 1862 was a primary catalyst for a century of American economic growth, it should be the role of government to develop policies and concrete legislation to support this development for the continued health of the American economy and the future of all mankind.

#### Those Conflicts go Nuclear

Klare 13 – Michael T., professor emeritus of peace and world-security studies at Hampshire College and senior visiting fellow at the Arms Control Association in Washington, DC, " How Resource Scarcity and Climate Change Could Produce a Global Explosion", *The Nation*, 4/22/2013, <https://www.thenation.com/article/how-resource-scarcity-and-climate-change-could-produce-global-explosion/> JHW

Resource Shortages and Resource Wars Start with one simple given: the prospect of future scarcities of vital natural resources, including energy, water, land, food and critical minerals. This in itself would guarantee social unrest, geopolitical friction and war. It is important to note that absolute scarcity doesn’t have to be on the horizon in any given resource category for this scenario to kick in. A lack of adequate supplies to meet the needs of a growing, ever more urbanized and industrialized global population is enough. Given the wave of extinctions that scientists are recording, some resources—particular species of fish, animals and trees, for example—will become less abundant in the decades to come, and may even disappear altogether. But key materials for modern civilization like oil, uranium and copper will simply prove harder and more costly to acquire, leading to supply bottlenecks and periodic shortages. Oil—the single most important commodity in the international economy—provides an apt example. Although global oil supplies may actually grow in the coming decades, many experts doubt that they can be expanded sufficiently to meet the needs of a rising global middle class that is, for instance, expected to buy millions of new cars in the near future. In its 2011 World Energy Outlook, the International Energy Agency claimed that an anticipated global oil demand of 104 million barrels per day in 2035 will be satisfied. This, the report suggested, would be thanks in large part to additional supplies of “unconventional oil” (Canadian tar sands, shale oil and so on), as well as 55 million barrels of new oil from fields “yet to be found” and “yet to be developed.” However, many analysts scoff at this optimistic assessment, arguing that rising production costs (for energy that will be ever more difficult and costly to extract), environmental opposition, warfare, corruption and other impediments will make it extremely difficult to achieve increases of this magnitude. In other words, even if production manages for a time to top the 2010 level of 87 million barrels per day, the goal of 104 million barrels will never be reached and the world’s major consumers will face virtual, if not absolute, scarcity. Water provides another potent example. On an annual basis, the supply of drinking water provided by natural precipitation remains more or less constant: about 40,000 cubic kilometers. But much of this precipitation lands on Greenland, Antarctica, Siberia and inner Amazonia where there are very few people, so the supply available to major concentrations of humanity is often surprisingly limited. In many regions with high population levels, water supplies are already relatively sparse. This is especially true of North Africa, Central Asia and the Middle East, where the demand for water continues to grow as a result of rising populations, urbanization and the emergence of new water-intensive industries. The result, even when the supply remains constant, is an environment of increasing scarcity. Wherever you look, the picture is roughly the same: supplies of critical resources may be rising or falling, but rarely do they appear to be outpacing demand, producing a sense of widespread and systemic scarcity. However generated, a perception of scarcity—or imminent scarcity—regularly leads to anxiety, resentment, hostility and contentiousness. This pattern is very well understood, and has been evident throughout human history. In his book Constant Battles, for example, Steven LeBlanc, director of collections for Harvard’s Peabody Museum of Archaeology and Ethnology, notes that many ancient civilizations experienced higher levels of warfare when faced with resource shortages brought about by population growth, crop failures or persistent drought. Jared Diamond, author of the bestseller Collapse, has detected a similar pattern in Mayan civilization and the Anasazi culture of New Mexico’s Chaco Canyon. More recently, concern over adequate food for the home population was a significant factor in Japan’s invasion of Manchuria in 1931 and Germany’s invasions of Poland in 1939 and the Soviet Union in 1941, according to Lizzie Collingham, author of The Taste of War. Although the global supply of most basic commodities has grown enormously since the end of World War II, analysts see the persistence of resource-related conflict in areas where materials remain scarce or there is anxiety about the future reliability of supplies. Many experts believe, for example, that the fighting in Darfur and other war-ravaged areas of North Africa has been driven, at least in part, by competition among desert tribes for access to scarce water supplies, exacerbated in some cases by rising population levels. “In Darfur,” says a 2009 report from the UN Environment Programme on the role of natural resources in the conflict, “recurrent drought, increasing demographic pressures, and political marginalization are among the forces that have pushed the region into a spiral of lawlessness and violence that has led to 300,000 deaths and the displacement of more than two million people since 2003.” Anxiety over future supplies is often also a factor in conflicts that break out over access to oil or control of contested undersea reserves of oil and natural gas. In 1979, for instance, when the Islamic revolution in Iran overthrew the Shah and the Soviets invaded Afghanistan, Washington began to fear that someday it might be denied access to Persian Gulf oil. At that point, President Jimmy Carter promptly announced what came to be called the Carter Doctrine. In his 1980 State of the Union Address, Carter affirmed that any move to impede the flow of oil from the Gulf would be viewed as a threat to America’s “vital interests” and would be repelled by “any means necessary, including military force.” In 1990, this principle was invoked by President George H.W. Bush to justify intervention in the first Persian Gulf War, just as his son would use it, in part, to justify the 2003 invasion of Iraq. Today, it remains the basis for US plans to employ force to stop the Iranians from closing the Strait of Hormuz, the strategic waterway connecting the Persian Gulf to the Indian Ocean through which about 35 percent of the world’s seaborne oil commerce passes. Recently, a set of resource conflicts have been rising toward the boiling point between China and its neighbors in Southeast Asia when it comes to control of offshore oil and gas reserves in the South China Sea. Although the resulting naval clashes have yet to result in a loss of life, a strong possibility of military escalation exists. A similar situation has also arisen in the East China Sea, where China and Japan are jousting for control over similarly valuable undersea reserves. Meanwhile, in the South Atlantic Ocean, Argentina and Britain are once again squabbling over the Falkland Islands (called Las Malvinas by the Argentinians) because oil has been discovered in surrounding waters. By all accounts, resource-driven potential conflicts like these will only multiply in the years ahead as demand rises, supplies dwindle and more of what remains will be found in disputed areas. In a 2012 study titled Resources Futures, the respected British think-tank Chatham House expressed particular concern about possible resource wars over water, especially in areas like the Nile and Jordan River basins where several groups or countries must share the same river for the majority of their water supplies and few possess the wherewithal to develop alternatives. “Against this backdrop of tight supplies and competition, issues related to water rights, prices, and pollution are becoming contentious,” the report noted. “In areas with limited capacity to govern shared resources, balance competing demands, and mobilize new investments, tensions over water may erupt into more open confrontations.” Heading for a Resource-Shock World Tensions like these would be destined to grow by themselves because in so many areas supplies of key resources will not be able to keep up with demand. As it happens, though, they are not “by themselves.” On this planet, a second major force has entered the equation in a significant way. With the growing reality of climate change, everything becomes a lot more terrifying. Normally, when we consider the impact of climate change, we think primarily about the environment—the melting Arctic ice cap or Greenland ice shield, rising global sea levels, intensifying storms, expanding desert and endangered or disappearing species like the polar bear. But a growing number of experts are coming to realize that the most potent effects of climate change will be experienced by humans directly through the impairment or wholesale destruction of habitats upon which we rely for food production, industrial activities or simply to live. Essentially, climate change will wreak its havoc on us by constraining our access to the basics of life: vital resources that include food, water, land and energy. This will be devastating to human life, even as it significantly increases the danger of resource conflicts of all sorts erupting. We already know enough about the future effects of climate change to predict the following with reasonable confidence: \* Rising sea levels will in the next half-century erase many coastal areas, destroying large cities, critical infrastructure (including roads, railroads, ports, airports, pipelines, refineries and power plants) and prime agricultural land. \* Diminished rainfall and prolonged droughts will turn once-verdant croplands into dust bowls, reducing food output and turning millions into “climate refugees.” \* More severe storms and intense heat waves will kill crops, trigger forest fires, cause floods and destroy critical infrastructure. No one can predict how much food, land, water and energy will be lost as a result of this onslaught (and other climate-change effects that are harder to predict or even possibly imagine), but the cumulative effect will undoubtedly be staggering. In Resources Futures, Chatham House offers a particularly dire warning when it comes to the threat of diminished precipitation to rain-fed agriculture. “By 2020,” the report says, “yields from rain-fed agriculture could be reduced by up to 50%” in some areas. The highest rates of loss are expected to be in Africa, where reliance on rain-fed farming is greatest, but agriculture in China, India, Pakistan and Central Asia is also likely to be severely affected. Heat waves, droughts and other effects of climate change will also reduce the flow of many vital rivers, diminishing water supplies for irrigation, hydro-electricity power facilities and nuclear reactors (which need massive amounts of water for cooling purposes). The melting of glaciers, especially in the Andes in Latin America and the Himalayas in South Asia, will also rob communities and cities of crucial water supplies. An expected increase in the frequency of hurricanes and typhoons will pose a growing threat to offshore oil rigs, coastal refineries, transmission lines and other components of the global energy system. The melting of the Arctic ice cap will open that region to oil and gas exploration, but an increase in iceberg activity will make all efforts to exploit that region’s energy supplies perilous and exceedingly costly. Longer growing seasons in the north, especially Siberia and Canada’s northern provinces, might compensate to some degree for the desiccation of croplands in more southerly latitudes. However, moving the global agricultural system (and the world’s farmers) northward from abandoned farmlands in the United States, Mexico, Brazil, India, China, Argentina and Australia would be a daunting prospect. It is safe to assume that climate change, especially when combined with growing supply shortages, will result in a significant reduction in the planet’s vital resources, augmenting the kinds of pressures that have historically led to conflict, even under better circumstances. In this way, according to the Chatham House report, climate change is best understood as a “threat multiplier…a key factor exacerbating existing resource vulnerability” in states already prone to such disorders. Like other experts on the subject, Chatham House’s analysts claim, for example, that climate change will reduce crop output in many areas, sending global food prices soaring and triggering unrest among those already pushed to the limit under existing conditions. “Increased frequency and severity of extreme weather events, such as droughts, heat waves and floods, will also result in much larger and frequent local harvest shocks around the world….These shocks will affect global food prices whenever key centers of agricultural production area are hit—further amplifying global food price volatility.” This, in turn, will increase the likelihood of civil unrest. When, for instance, a brutal heat wave decimated Russia’s wheat crop during the summer of 2010, the global price of wheat (and so of that staple of life, bread) began an inexorable upward climb, reaching particularly high levels in North Africa and the Middle East. With local governments unwilling or unable to help desperate populations, anger over impossible-to-afford food merged with resentment toward autocratic regimes to trigger the massive popular outburst we know as the Arab Spring. Many such explosions are likely in the future, Chatham House suggests, if current trends continue as climate change and resource scarcity meld into a single reality in our world. A single provocative question from that group should haunt us all: “Are we on the cusp of a new world order dominated by struggles over access to affordable resources?” For the US intelligence community, which appears to have been influenced by the report, the response was blunt. In March, for the first time, Director of National Intelligence James R. Clapper listed “competition and scarcity involving natural resources” as a national security threat on a par with global terrorism, cyberwar and nuclear proliferation. “Many countries important to the United States are vulnerable to natural resource shocks that degrade economic development, frustrate attempts to democratize, raise the risk of regime-threatening instability, and aggravate regional tensions,” he wrote in his prepared statement for the Senate Select Committee on Intelligence. “Extreme weather events (floods, droughts, heat waves) will increasingly disrupt food and energy markets, exacerbating state weakness, forcing human migrations, and triggering riots, civil disobedience, and vandalism.” There was a new phrase embedded in his comments: “resource shocks.” It catches something of the world we’re barreling toward, and the language is striking for an intelligence community that, like the government it serves, has largely played down or ignored the dangers of climate change. For the first time, senior government analysts may be coming to appreciate what energy experts, resource analysts and scientists have long been warning about: the unbridled consumption of the world’s natural resources, combined with the advent of extreme climate change, could produce a global explosion of human chaos and conflict. We are now heading directly into a resource-shock world.

### 1NC – OFF

#### The subject is alienated when it articulates its desires – incomplete signifiers structure the emergence of subjectivity and produce repetitive drives to fill the lack that justify coercive violence. Thus, the ROB is to traverse the fantasy – that means exposing drives.

Matheson 15 Calum Matheson, PhD, 2015, “Desired Ground Zeroes: Nuclear Imagination and the Death Drive,” University of North Carolina at Chapel Hill, [Calum Matheson is author of Desiring the Bomb: Communication, Psychoanalysis, and the Atomic Age (University of Alabama). He is a former high school debater. His research focuses on intersections of rhetoric, media, and theories of psychoanalysis and deconstruction. His current work focuses on right-wing political extremism, conspiracy thinking, and Lacanian concepts of anxiety and psychosis. He has also published work on argument, history of rhetoric, and games. Dr. Matheson is a former debate coach at Harvard University and a current candidate at the Pittsburgh Psychoanalytic Center.], <https://cdr.lib.unc.edu/concern/dissertations/6682x4537>, SJBE

The Real Jacques Lacan’s notion of the Real is notoriously difficult to define. In his book on the subject, Tom Eyers calls it the “most elusive” of Lacan’s concepts, but one that is also one that is “central” and “determining” for psychoanalysis (1). There are common elements of the various definitions. First, an agreement that both the economy of tropes that allows the conditions for meaning to emerge (the Symbolic) and the meanings and values invested in these tropes, including the subject itself (the Imaginary), do not and cannot perfectly capture all of existence or experience. Second, this unassimilable remainder structures the Symbolic and Imaginary, just as they structure each other, and thus all three registers are knitted together as demonstrated in Lacan’s famous “Borromean Knot.” The Real is what escapes mediation, what disrupts language itself. To explain its significance and relationship to desire requires examining its foundational role in the formation of the subject. The Real can be understood as the constitutive lack of the subject, its separation from the rest of existence by the self-definition necessary for it to come into being in the first place. This is made clear in the mirror stage, where the subject moves from a fragmented, disorganized concept of the body to the “finally donned armor of an alienating identity that will mark his [sic] entire mental development with its rigid structure” (Lacan, “Mirror Stage” 78). The formation of a discrete subject (a function in the Imaginary register) is a compromise. Its formation allows for participation in the Symbolic because to participate in that economy of exchange requires a “social I” (Lacan, “Mirror stage,” 79). This participation comes at the cost of alienation because the subject trades in a world of symbols which by their nature stand in for what is not present, and thus inescapably mediate the (Real) world outside of the subject, rather than making it present. This lack built in to the subject is the engine of desire: the subject’s divide from an object is a prerequisite for the desire of such an object, but the condition of mediation makes it impossible to ever incorporate it in a perfectly satisfying way. Thus desire remains unfulfilled and each chase for a symbol leads to another in loop which the very constitution of the subject dictates must be endless. This is the basic operation of the death drive which is not distinct from Eros. Were the impossible to occur and the drive of Eros to be fulfilled, it would be extinguished, as there would be nothing left to desire. Thus all drives aim, in a sense, at their own extinction, and therefore there is in a sense only one—the drive that aims towards the extinction of desire through its complete fulfillment in continuity with the world that was lost when the subject became distinct from it in the mirror stage. Although the death drive might stand in for the singular character of the drive, it should not be understood as a desire for the actual biological death of the subject’s body, or even the desire to inflict death on others. The self-destruction of the death drive is a desire to break the limits of the self as the alienating armor of the subject by experiencing unmediated contact with the Real. Death still defines its operation in other ways. The last portion of Lacan’s “The Function and Field of Speech and Language in Psychoanalysis” explains the metaphorical centrality of death as the center of a torus formed by incessant symbolization. The fort-da game is most significant not because it shows that the child wishes to destroy its mother or even inoculate itself against that possibility, but because it assimilates the child into the Symbolic order through the repetition of the signifiers fort and da, which stand in for presence and absence. Death is central to language because the symbol itself invokes the absence and loss of nonexistence since its function is to stand in for something that is gone. Language swirls around this absent center of death, a primordial absence encased in the inner ring of the torus, while the outer surfaces of language hold all else that cannot be symbolized at bay on the outside (Lacan, “Function and Field” 260-264). Paradoxically, death is necessarily evoked by the symbol as that which is absent and also made possible in the first place by that same symbol. The separation of the subject into its alienating identity as a social object makes a meaningful concept of death possible because without it there is no dasein, no individual, no singular human to die. George Bataille explains this with an entomological example. If a scientist picks one fly from a swarm, that fly is subject to death, because its end means the end of the discontinuous being selected by the entomologist. Without differentiation of its members, however, the swarm lives on; the selection of the fly is for the entomologist, not the animal (Bataille, “Hegel, Death and Sacrifice” 14-16). Thus it is with human beings. The subject is founded by a rejection of its sole animal nature by participating in a world of work and accumulation, mediated by language—essentially Lacan’s Symbolic. Thus individuals are made discontinuous with the general economy of matter and energy from which all things are formed by a conceptual separation inextricably bound up in death. Our existences are thus defined by discontinuity from a world of continuity, and for Bataille as for Lacan, our drives are singular in the sense that sex is a coupling that unifies with another and momentarily overcomes discontinuity just as death is the end of the subject’s brief separation from a universe differentiated only by the dismembering violence of our imposition of symbols upon it (Bataille, Erotism 13-17). The experience of death may still be unique because it suggests the absence implied by the sign and because it can be experienced only once by the subject—and for obvious reasons, cannot be symbolized by anyone with first-hand experience. As Freud argues in “Thoughts For The Times On War and Death,” we cannot even hope to imagine our own deaths because to do so demands that we imagine them from some perspective which would be destroyed in the experience itself. Death and the Real are therefore not identical, but are closely linked. The most important characteristic of the Real is not just that it suggests existence beyond language, but that this world-for-itself (to borrow from Eugene Thacker) intrudes on human reality and reveals it to be incomplete. Encompassing Max Picard’s concept of silence, the Real is not the absence of human reality so much as the traumatic revelation that that reality was always incomplete, always feigned in the face of existence so much more than human mediation has already covered. Chris Lundberg uses Lacan’s distinction between reality, being the social world of human construction, and the Real, being the occasional but inevitable failure of that reality, to develop his own distinction between failed unicity and feigned unicity. The Symbolic operates as an economy of interconnected and mutually-referential tropes weaving a kind of fabric that is the precondition for meaning, an environment in which social relationships can be understood in context. When the unified illusion of the social fails, we are compelled to stitch the tears in that fabric to maintain the world that gives us meaning (Lacan in Public 2-3). An account by Bill Laurence, the only journalist allowed to witness the Trinity test, provides evidence for this rupture and repair. While “not a sound could be heard” for the period after the flash and before the thunder, Laurence saw civilization itself collapse in an instant: The big boom came about one hundred seconds after the great flash—the first cry of a newborn world. It brought the silent, motionless silhouettes to life, gave them a voice. A loud cry filled the air. The little groups that had hitherto stood rooted to the earth like desert plants broke into a dance—the rhythm of primitive man dancing at one of his fire festivals at the coming of spring. They clapped their hands as they leaped from the ground…The dance of the primitive man lasted but a few seconds, during which an evolutionary period of about 10,000 years telescoped. Primitive man was metamorphosed into modern man—shaking hands, slapping his fellow on the back, all laughing like happy children. (12)

#### The 1AC is an ideological fantasy constructed by relentless planning at the expense of scapegoated identities, all for recognition from the Other in an attempt to fill the lack.

Gunder 05 Michael Gunder, 2005, “The Production of Desirous Space: Mere Fantasies of the Utopian City?” Planning Theory 2005 4: 173, DOI: 10.1177/1473095205054604, all brackets were in the original text, SJBE

Jouissance is one of the four structuring elements of social discourse,4 or social interactions, links and relationships, where synchronic language meets diachronic speech to evoke an effect on the Other (Lacan, 2004: 3). Zupancic (2004) associates Lacan’s (2004) theory of the Four Discourses (see Gunder, 2003a, 2004; Hillier and Gunder, 2005) with the Marxian theory of commodification and surplus-value via Lacan’s concept of surplus-enjoyment (plus-de-jouir). Lacan (2004: 111) contends that surplusvalue and surplus-enjoyment are historically equivalent, especially in the situation of the Master’s injunction of ‘No!’ in the emerging early phase of Calvinistic repressive capitalism. In contrast to the historical authority and rationality of the Master’s repressive command, late capitalism is structured under a rationality of the university or bureaucracy. Now knowledge and technology, not the Master’s injunction, become ‘agency expressing a logic of governmentality and expertise (including that of planning) that does not prohibit enjoyment, but rather channels jouissance in ways that produces a “bio-politics” (after Foucault) of an alienated subject that has no option, but to enjoy and be satisfied’ (Hillier and Gunder, 2005; McGowan, 2004; Zˇ izˇek, 2004b; Zupancic, 2004). In this regard, ‘a nation exists only as long as its specific enjoyment continues to be materialised in a set of social practices and submitted through national myths [or fantasies] that structure these practices’ (Zˇ izˇek, 1993: 202). This is taken further by the barely challenged international hegemonic discourse of global capitalization and the fantasies it induces in externally structuring the nation state’s very enjoyment (Stavrakakis, 2003a: 63; Zˇ izˇek, 2004b: 61). Even the ruling British Labour government, with its ‘Third Way’, in contrast to its tradition of socialism, has placed ‘economic globalisation’ as ‘the most significant factor in shaping Labour Party thinking since the early 1990s’ (Allmendinger, 2003: 326). As McGowan (2004) observes: we trust fully in the staying power of global capitalism. The alternatives, which once seemed to be just around the corner, have become unimaginable today. The universe of global capitalism is, or so we think, here to stay, and we best not do anything to risk our status within it. Hence, we pledge our allegiance to it, and we put our trust in it. This is the fundamental mode of contemporary obedience to authority. Only by coming to understand this obedience to the dictates of global capitalism as obedience can we hope to break out of it. Global capitalism seems an unsurpassable horizon simply because we have not properly recognized our own investment in sustaining it. We see it as unsurpassable because we don’t want to lose it – and the imaginary satisfaction that it provides. (McGowan, 2004: 193) Illusion resides under this global fantasy of capital where ‘the basic feature of’ this dominant cultural imperative ‘no longer operates on the level of ideals and identifications, but directly on the level of regulating jouissance’ (Zˇ izˇek, 2004b: 113). Even in Lefebvre’s day, this was a capitalism where surplus-value was synonymous with surplus-enjoyment supporting the injunction: ‘you must enjoy!’. In this light, the role of planning is to facilitate enjoyment by sustainably providing the correct space – healthy, competitive, fit and attractive – where enjoyment can be effectively materialized and maximized under the imperative of global capitalism. Consequently: urbanism is nothing more than an ideology that claims to be either ‘art’ or ‘technology’ or ‘science’, depending on the context. This ideology pretends to be straightforward, yet it obfuscates, harbours things unsaid: which it covers, which it contains, as a form of will tending towards efficiency. Urbanism is doubly fetishistic. First, it implies the fetishism of satisfaction. What about vested interests? They must be satisfied, and therefore their needs must be understood and catered to, unchanged . . . Second, it implies the fetishism of space. Space is creation. Whoever creates space creates whatever it is that fills space. The place engenders the thing and the good place engenders good things. (Lefebvre, 2003: 159) This is exacerbated further in the current milieu of consumerist post-democracy personified by the master signifier: global capitalism. ‘Post-democracy is founded on an attempt to exclude the political awareness of lack and negativity from the political domain, leading to a political order which retains the token institutions of liberal democracy but neutralizes the centrality of political antagonism’ (Stavrakakis, 2003a: 59). In response to the dominant ‘logic’ of global competitiveness, the technocrats and experts including planners, shape, contextualize and implement public policy in the interest of the dominant hegemonic bloc. This is constructed under the logics and knowledges of university discourses (see Gunder, 2004), with an objective to remove existing or potential urban blight,‘dis-ease’ and dysfunction detracting from local enjoyment and global competitiveness (Gunder, 2005; McGuirk, 2004). Of course, the hegemonic network, or bloc, initially shapes the debate as to what constitutes desired enjoyment and what is lacking in urban competitiveness. In turn, this defines what is blighted and dysfunctional and in need of planning remedy. This is predicated on a logic, or more accurately a rhetoric, that a lack of a particular defined type of enjoyment, or competitiveness, is inherently unhealthy for the aggregate social body. Planners, programmers, and users want solutions. For what? To make people happy. To order them to be happy. It is a strange way of interpreting happiness. The science of the urban phenomenon cannot respond to these demands without the risk of validating external restrictions imposed by ideology and power. (Lefebvre, 2003: 141) Yet this lack and its resolution are more often technical in nature, rather than political. As a consequence, the technocrats in partnership with their ‘dominant stakeholders’ can ensure the impression of happiness for the many, while, not to mention, achieving the stakeholders’ specific interests. Material happiness for all but that evil other Lacanian theory suggests that a subject’s jouissance is given freest rein when an act of desire contains a dimension of transgression. It is the ‘little sin’ that gives the most pleasure; it is the prohibition as such which elevates a common everyday object into an object of desire (Zˇ izˇek, 2004b: 177). The bio-politics of contemporary planning are predicated on enjoyment – you will enjoy! – not the prior duality of repression/freedom of the Weberian capitalist master’s injunction: ‘No you cannot do that!’. The achievements of traditional utopian goals were ones of freedom to act against the repression of the negative injunction. Contemporary injunctions are to enjoy – or at least to sustain our happiness – regardless of what we actually desire. Happiness is not a class of truth, but one of an ontological class of being where: ‘happiness’ relies on the subject’s inability or unreadiness fully to confront the consequences of its desire: the price of happiness is that the subject remains stuck in the inconsistency of its desires. In our daily lives, we (pretend to) desire things which we do not really desire, so that, ultimately, the worst thing that can happen is for us to get what we ‘officially’ desire. Happiness is thus hypocritical: it is the happiness dreaming about things we do not really want. (Zˇ izˇek, 2002a: 59–60) Planning continues to succeed because it underpins the primal desire of most subjects in society for a conflict-free, safe and assured happy future, even if it can only deliver this as a fantasy-scenario of material happiness, rather than as an impossible reality that actually sates all desires (Gunder, 2003a, 2003b). This is a fantasy predicated on an obedience to a shallow consumptive quantitative imperative to be materially happy, which often occurs at the expense of our actual qualitative psychic desires. In our contemporary global society the ‘moral law’ is no longer the imperative that acts as a limitation, stopping us from enjoying too much. Instead, the cultural imperative, the now dominant moral Law itself, in its injunction for us to enjoy becomes ‘the ultimate “transgression”’ should one wish to pursue a life of moderation (Zˇ izˇek, 2004b: 174). Further, ‘the fantasy of a utopian harmonious social world can only be sustained if all the persisting disorders can be attributed to an alien intruder . . . a certain particularity which cannot be assimilated, but instead must be eliminated’ (Stavrakakis, 1999: 108). This is the stranger, the Other that is not us that can act as the ‘“scapegoat” to be stigmatised as the one who is blamed for our lack, the Evil force that stole our precious jouissance’ and stopped the fantasy from achieving its utopian vision (Stavrakakis, 2003a: 58). Even our ‘“complex” contemporary societies rely on the basic divide between included and excluded’ (Zˇ izˇek, 2004b: 86). Zˇ izˇek (2004b: 86) continues: in any society ‘there is a multitude within the system and a multitude of those excluded, and simply to encompass them both within the scope of the same notion amounts to the same obscenity as equating starvation with dieting.’ It is continually this Other that permits the delusion of harmony in our identity defining groups and for this to transpire we require an Other, external to the group for the group to define itself. We require a disparity, or gap, to allocate a degree of difference to an Other to conceptualize the group identification as who we are not and on this Other we can attribute all the signs of disharmony that jeopardize our shared fantasy (Zˇ izˇek, 1997: 5). Difference is essential to complete our fantasy of harmony, but only by providing the sacrificial Other on which we can blame the disappointment of the fantasy to deliver (Zˇ izˇek, 2004a: 158–9). In this light, planning,‘as part of the apparatus of the modern state, makes its own imprint, has its own powers for good and evil’ (Sandercock, 2004: 134). This is especially so as planning identifies, or at least names and legitimizes, what constitutes an urban pathology that detracts from what is desirous of the globally competitive city. Planning then sets out to remedy this lack or deficiency. Civil society, i.e. the public stage, and media of information dissemination are central to this process. Of course, our media are not ideologically neutral. As a consequence, media access for putting forth particular tropes of desire constitutes a central component of social, as well as economic, capital. This is well documented by Flyvbjerg (1998a) where the Aalborg Chamber of Commerce controlled the editorial content of the local newspaper. This argument is central to that of Chomsky’s (2003) multinational corporate steering of mass media content in the, so-called, ‘free’ press. This is where the mass media are free to publish almost anything, provided, of course, they do not alienate their corporate clients who provide their majority of income and profits via their advertising payments. Gunder (2003b) documented how planning actors and their affiliated partners gained public agreement via the rhetorical use of culturally shared ‘master signifiers’ and their related metonymies and metaphors. Here each signifier was linked to associations in the public’s unconscious that induced a conscious expression of desire for a particular set of values or specific consequential actions. Effective deployment of rhetorical tropes can seduce subjects ‘to relinquish previous desires (including identifications and embrace new ones) – or alternatively, to invest all the more completely in old ones’ (Bracher, 1993: 51–2). For example, does anyone wish to live in a city that is losing enjoyment to other locations because it lacks the fitness to compete? In Lacan, the construction of reality is continuous with the field of desire. Desire and reality are intimately connected . . . The nature of their link can only be revealed in fantasy . . . when harmony is not present it has to be somehow introduced in order for our reality to be coherent. It has to be introduced through a fantasmatic social construction. (Stavrakakis, 1999: 62–3) This is where, from a Lacanian outlook, by accepting rationalization as the means to fulfil a desire for completeness – via the utilization of falsifying words – ‘man does not adapt himself to reality; he adapts reality to himself’ (Roudinesco, 1997: 114). Ideological fantasies as to what constitutes an enjoyable and satisfying city are deployed to hide the dysfunctions and unpredictabilities that are ubiquitous throughout all social spheres, particularly for those lacking in sufficient capital to offset adversity. Social reality ‘is sustained by the “as if”, the fantasy of what things are like’ (Dean, 2001: 627). Rationalization, or realrationalität as Flyvbjerg (1998a) calls it, exists between the everyday activities of social life and the held universal ideals or values of what ought to be, even if it is not so, in social reality. The belief that planning is not political, but technical ‘allows the myths of objectivity, value neutrality, and technical reason to persist, and thereby fosters a certain delusion about planning practice’ (Sandercock, 2004: 134). Sandercock (2004: 134) continues: planning ‘helps to redefine political debate, producing new sources of power and legitimacy, changing the force field in which we operate’. Lefebvre suggests that planning is based on a strategy of mixing scientificity and rationality with ideology. ‘Here, as elsewhere, scientificity is an ideology, an excrescence grafted onto real, but fragmentary, knowledge’ (Lefebvre, 2003: 166). In particular, Lefebvre argues that quantitative expertise including the technology of urban planning is largely a myth. This is because planning administrators: and bad administrators at that, rarely use much actual technology. However, they have the ability to persuade the people as a whole that because these are technological decisions they should be accepted. In other words, a large part of Lefebvre’s criticism [of planners] is not that technocrats are technocrats, but that they are precisely the opposite. Technology should be put to the service of everyday life, of social life rather than being precisely the condition of its suppression and control. Urbanism, for example, is an ideology that operates under the cover of this myth of technology. (Elden, 2004: 145) Social reality can only exist in the symbolic and imaginary registries as it is composed, that is constructed, as a ‘result of a certain historically specific set of discursive practices and power mechanisms’ (Zˇ izˇek, 2001: 66). Flyvbjerg (1998a) illustrates this well in his exposé of the Aalborg Chamber of Commerce’s intervention in that city’s planning process. Here this grouping of dominant business people is given hegemonic voice to determine what constitutes acceptable transportation modes and spatial development in Aalborg’s town centre. In this example the planner’s technical facts, by themselves, produced the weaker argument. This was perhaps because the dissemination of these facts and their implications for planning action were ineffectively articulated to the public, if at all, via the local information media controlled by the Chamber of Commerce. In contrast, in Sydney, McGuirk (2004) documented how planners actively participated in and facilitated the dominant network of actors successfully pushing for a series of local, regional and national policies supporting Sydney’s global competitiveness. It appeared to be of little consequence that these policies induced adverse effects on the rest of the country, not to mention many of Sydney’s residents. Not dissimilarly, the Auckland case cited in the introduction illustrates how the planners actively consulted the dominant commercial stakeholders in developing their growth strategy, yet failed to have direct consultation with the Region’s actual residents (ARGF, 1999; Gunder, 2003a). Planners and their governance forum of dominant stakeholders appeared to inherently know what is in the best interests of their region’s residents. Planning as agonistic ethics Notwithstanding the ‘full rendering of the antagonisms which traverse our society, we indulge in the notion of society as an organic whole, kept together by forces of solidarity and co-operation’ (Zˇ izˇek, 1997: 6). Planning is one such instrument that shapes and justifies the governing ideals of utopian desire and in this ‘sphere, the fantasmatic ideal of harmony is dominant’ (Stavrakakis, 1999: 110). The subtle and not so subtle application of power defines truth, reason and rationality and this particularly comprises the deployment of power in our planning and related practices (Flyvbjerg, 1998a). Moreover, a Lacanian line of reasoning about knowledge and truth indicates that the constituting components of these induced fantasies of truth and rationality are mediated on the wants and needs of actors with the capacity to inflict their desires and wants on the Other and, as if, these desires belong to those who have been imposed on. This is via assertions of unquestionable ‘truth’, which are often supported and empowered by selected ‘distorted’ knowledge, practices and language put forward by their ideological supporters, employed professional experts and controlled media. Further, in this light traditional Kantian and related enlightenment ‘ethics is nothing more than a convenient tool for any ideology that tries to pass off its own commandments as authentic, spontaneous, and “honorable” inclinations of the subject’ (Zupancic, 1998: 41). In contrast to traditional ethics, Lacan’s (1992) theorizing may provide an alternative way to develop new values beyond those already constituted by society as traditional morals of good or evil shaping acceptable behaviours. Traditional ethics is predicated on a reality principle as to what is possible without transgression in social reality. As Zupancic (2003: 77) observes, this ‘reality principle itself is ideologically mediated; one could even claim that it constitutes the highest form of ideology, the ideology that presents itself as empirical factor or (biological, economic . . .) necessity.’ This ‘beyond good or evil’ does not have to lead to postmodern nihilism, rather Lacan lays a groundwork for an ethics of the Real, where through acknowledgement of this Real that we cannot know or articulate we can establish new ‘truths’ in relationship to the ‘good’ (Stavrakakis, 2003b; Zupancic, 2000, 2003). This is through a mechanism of ethical sublimation where we create ‘a certain space, scene, or “stage” that enables us to value something that is situated beyond the reality principle, as well as beyond the principle of common good’ (Zupancic, 2003: 78). It is the space, or stage, created when the planner, or other actor, makes the ethical decision to recommend an action or permission that is contrary to existing regulations, precedence, professional expectations, or cultural imperatives. This is perhaps because somehow for the planner, perhaps simply driven by strong feelings, the ‘correct’ and expected action is perceived as not being the right thing to do. From the Lacanian perspective of the ethics of the Real, to make the sensed wrong into a rightness is the ethically correct task, even if this requires the agent to act against what he/she thinks society expects of that actor. This act of transcending the reality principle, and being true to the actor’s desires,5 makes possible a new good, a new potential, it changes the rules as to what is possible (Gunder and Hillier, 2004: 230). ‘The ethical, then, is the constellation of events in which the subject frees herself from the symbolic law (“freedom”), commits herself to an act (“agency”), and thereby makes it possible for the law to be rethought’ (Kay, 2003: 109). The ethical ‘act is an “excessive”, trans-strategic intervention which redefines the rules and contours of the existing order’ (Zˇ izˇek, 2004b: 81). Viewed from this perspective, Kant’s categorical imperative must be rethought itself as purely transgressive: the ethical act proper is a transgression of the legal norm – a transgression which, in contrast to a simple criminal violation, does not simply violate the legal norm, but redefines what is a legal norm. The moral law does not follow the Good – it generates a new shape of what counts as ‘Good’. (Zˇ izˇek, 2001: 170) This is a transgression that introduces new spaces for what can be considered ‘good’ and hence a wider space for jouissance, beyond that of mere technically produced materialist satisfaction. Of course, a key question becomes: how can a credible planner, or other actor, transcend the accepted norms and expectations of a society to create a new space for a new concept of ‘good’? Further, how can one effectively and reasonably mobilize such an ethics of the Real in everyday life when it is so contrary to the consensual instrumental rationality of the modern project and its ready-made solutions, that are, arguably planning’s purpose and foundations? Planning theorists (e.g. Gunder and Hillier, 2004; Pløger, 2004) and researchers in other disciplines (e.g. Mouffe, 1999, 2000; Stavrakakis, 2003a; Thrift, 2004a, 2004b) are currently attempting to address these complex issues that essentially require new insight and perhaps even profound change in our very relationships towards social reality, itself. Further, they are attempting to do so in a manner that does not simply impose a new intransigent set of ideals to replace our late-modern cultural imperatives, but rather to encourage diverse opportunities for multiple opening in which imminence may continually occur (after Deleuze). Coherent and implementable means to achieve this desired state are yet to emerge as new knowledges and practices, if they can ever do so. Yet, this author suggests that mere awareness and articulation of the impossible implications that the Lacanian Real has on traditional rationality are perhaps one of many points of commencement. Of course, this discourse also may fall into the trap leading to transcendental idealism, i.e. a process of identifying a lack, or void, in our knowledge and practices and then presenting a hegemonic solution that must be implemented, regardless of effect and affect! This author suggests that to change social reality, to begin to question and where necessary traverse our norms and laws, while avoiding the imperative of idealism, calls for a return to agonism that reawakens the political awareness of lack and negativity in place of the technical injunction: you will enjoy! This permits a space for an inclusive acceptance of strife or agonism that does not exclude the Others’ voice attempting to articulate their desires and wants in response to the ‘irreducibility of the Real’ (Stavrakakis, 2003b: 331). Rather this re-politicization of the planning problematic from that of the technical, quantified, solution is one that values Lacan’s Real and Lefebvre’s lived space by making the ‘key “jump from quantity to quality”, from antagonisms subordinated to differences to the predominant role of antagonism’ as pure agonism (Zˇ izˇek, 2004b: 92). In Lefebvre’s city ‘unconscious desires and passions lay dormant, dormant beneath the surface of the real, within the surreal . . . waiting for . . . the day they can be realized in actual conscious life’ (Merrifield, 2000: 178). In this regard, rather than continuing to fill the lack generating the urban problematic and produce a largely phallic enjoyment, Stavrakakis (2003b: 332) reminds us that in Lacan’s later teachings he spoke of another form ‘of jouissance – female or feminine jouissance – which values this lack per se as something that entails a different kind of enjoyment.’ Perhaps this feminine jouissance may be more appropriate to politicize the needs and wants of lived space. Yet, to do so would require a politics that acknowledges the impossibility of the Lacanian Real. In contrast to the notion that what is meant by an utopia is an imagined ‘ideal society; what characterizes utopia is literally the construction of a u-topic space, a social space outside the existing parameters, the parameters of what appears to be “possible” in the existing social universe’ (Zˇ izˇek, 2004b: 123). This proposed utopia is one that may permit, at least aspects of Lefebvre’s ‘lived space’ of the qualitative to be both visible and articulated in conscious life. Rather than contestant cities and regions competing globally under one cultural imperative to attract and retain finite capital and resources via one ‘logic’ and vision, this article calls for a planning ethos that encourages diverse groups within cities and regions to actively contest their perspectives and desires without threat of exclusion. To achieve such a state requires planning ‘to find ways of working with agonism without automatically recurring to procedures, voting, representativity, forced consensus or compromises’ that inherently exclude (Pløger, 2004: 87). This requires a planning ethos predicated on a central awareness of the irreducible Real. This is an understanding that any forced resolution always excludes a remainder, what cannot be articulated or perceived. Further, this remainder will continue to have unconscious effect in terms of what drives our materialized actions. This suggests an overt democratic planning process, representative of a society that is explicitly and overtly hegemonic for all participants, not tacitly hegemonic in its privileging of specific groups with access to power and technocratic justification that is constituted under a logic implicitly desiring social order (Critchley, cited in Zˇ izˇek, 2004b: 95). This is in contrast to the existing social reality, where political processes, such as planning, appear to strive for public participation culminating in an harmonious public consensus, when of course this is but an ideological foil that excludes in the name of a ‘general interest’ defined by a privileged few and legitimized by technocratic ‘reason’. In contrast, a strong society ‘places conflict and power at its centre’ by guaranteeing the very ‘existence of conflict’ (Flyvbjerg, 1998b: 229). Our current dominating fantasy of harmony is sustained by the illusion of continued consumer abundance produced and brought by the cornucopia of global capitalism, at least for the first world. This enjoyment of global capitalism ‘constitutes a (partial) reality with hegemonic appeal, a horizon sustained by the hegemony of an administration of desire with seemingly unlimited resources’ (Stavrakakis, 2003a: 61). Of course, resources and global carrying capacities are axiomatically finite. So perhaps must be our desires, for they can never be sated. Traversing our fundamental fantasy for harmony: a start, not a conclusion! Lacan and his followers, such as Stavrakakis, Zˇ izˇek or Zupancic, produce valid arguments for a psychoanalytically derived philosophy of reality and ideology ‘capable of theorizing the ways our deepest commitments bind us to practices of domination’ (Dean, 2001: 627). Revealing and transversing the ideological constructs that shape and structure our social reality is inadequate in itself as a mere academic critical exercise of knowledge production. This author argues that we must radically challenge our underlying beliefs for ourselves, and, in particular, not externalize them to ‘larger cultural practices and technologies’ so that hegemonic networks, or partnerships, of dominant actors, including intellectuals and bureaucratic professionals, can do our believing and desiring for us through planning and related diverse agencies of social guidance (Dean, 2001: 628). To do so we must traverse our fundamental fantasies that seek harmony and security. This article’s application of Lacan, augmented with some of Lefebvre’s urban insights, gives us a combination of Freudian and Marxist thought that is considerably at odds to that conjured up by the Frankfurt School’s vision of society as ‘a liberated collective culture’ with little space for the individual histories of unique subjects (Jameson, 2003: 8). The latter is the School, or project, drawing on Marx and Freud, which eventually created the Habermasian product of communicative rationality. This is a rationality that sought as its seldom if ever achieved ideal, to produce undistorted (ideologically free) speech acts ‘based on recognition of the corresponding validity claims of comprehensiveness, truth, truthfulness, and rightness’ constituting a basis for consensually agreement as to how we should act (Habermas, 1979: 3). Yet, as Hillier (2003) illustrates, this is an ideal of undistorted speech that is an impossibility because of the Lacanian Real and the incompleteness it always induces in language, not to mention the impossibility of absolute truth. Yet, this author would agree with Habermas’ call for the supremacy of discourse over mere technical reason. Habermas’ last two validity claims of truthfulness to our desires and the need to act in regard of what our unconscious feeling says is rightness, even if this sense is perhaps not readily justifiable with symbolic knowledge and reasoned argument, should be given due regard through our discourses. In contrast to Habermas’ validity claims of truth and comprehensiveness, Lacan’s theorizing suggests a much more fundamental contextualization of urban ideology based on the fantasies we construct to paper over the lack induced by the Real. This is a perspective that situates our very social reality, including space and social interaction, as principally constituted and composed of ideological fantasy constructs, misrecognitions and misunderstandings (see Hillier, 2003). As Jameson (2003: 37–8) observes, we owe to Lacan ‘the first new and as yet insufficiently developed concept of the nature of ideology since Marx’. Drawing on Althusser, Jameson (2003: 37–8) continues that ideology is ‘the “representation” of the Imaginary relationships of individuals to their Real conditions of existence’, so that ‘the individual subject invents a “lived” relationship with collective systems.’ This is a symbolic, materialized, relationship of practices and rituals (Krips, 2003: 149). Here, it is the desire of this Other that we fundamentally seek and wish to please as we constantly strive to return to our idealized primordial desire for infant maternal security and contentment (Hillier and Gunder, 2005). So we construct and share illusions and fantasies – ideologies – that we are somehow achieving this impossible task. It is the aggregate of these Others, and the illusions we generate about them and ourselves, that constitutes the social reality that is our lived space.

#### Narratives of sustainable space exploration are constructed fantasies of risk analysis that desire an impossible knowledge and recreate power hierarchies through controlled risk politics

**Ormord, 12** – James, School of Applied Social Science, University of Brighton, (“Beyond world risk society? A critique of Ulrich Beck’s world risk society thesis as a framework for understanding risk associated with human activity in outer space.” Environment and Planning D: Society and Space 2013, volume 31, pages 727 – 744)

Beck has been criticised for his ‘confusion’ about whether or not exposure to risk is unevenly distributed according to social and geographic divisions (Lupton, 1999, page 68). He has argued that “pollution follows the poor” (Beck, 1999, page 5) and has accepted that the rich can sometimes buy themselves safety, but he has also stated that nuclear contamination, for example, “is egalitarian, and in that sense ‘democratic’” (page 61), and he hopes for our unification into a global “civilizational community of fate” (2006, page 7; also 1992, page 47). In elaborating what he calls a “political economy of risk”, however, he appears to accept that the economic consequences of risk are unevenly socially distributed (1999, page 61). It is therefore surprising that he refers to the subpolitics of risk as an ‘enemyless’ politics. For even if it is accepted that risks themselves unite us in principle, there are clearly, as in the instances discussed above, those who benefit from the proliferation of risk. I have argued throughout the paper that there are serious problems with Beck’s account of how a cosmopolitan public sphere will emerge. The contradictions of risk themselves are portrayed as the most powerful force in undermining the risk makers, whilst it is merely for social movements to make risk scandalous, and various “moralizing groups” to put risk on the social agenda (1999, page 67). **Beck sees progress as** occurring “not through class struggle or revolution as in Marx, but as an unintended consequence of modernity itself” (Lupton, 1999, page 67). Politics “nestles down” in everyday life as risk decisions become impossible to ignore (Beck, 1997, page 152). His hope for cosmopolitan ecological democracy revolves around consumer boycotts and buycotts, and in **balloting over ecological issues**. In his assertion that “in sorting through the trash for recycling, everyone is compelled to cooperate as a minor activist in the overall rescue mission for the earth and humankind” (1997, page 91, emphasis added), activism is dissolved into individualised consumer behaviour administered by the state (see Smith, 2009, page 17). The theoretical problem posed by the relative failure to politicise the public about the risks involved in space activity is precisely that it does not impose itself on the everyday lives of those who stand to suffer. Nor are the risks concentrated in any socially or geographically determined sector of the population, with the exception of localised risks around manufacture and launch facilities such as the Baikonur Cosmodrome. The decision by **SNAP-9A** scientists to design the plutonium capsule to break up in the event of a disaster was in this sense a perfect tactic to avoid politicising any particular group. Issues concerning risk associated with human activity in space may find greater symbolic anchoring in areas immediately surrounding manufacture and launch sites, accounting for the geographic concentration of activism within those areas, but there is no necessary reason why people should engage with them. Accounting for why some people are mobilised to contest these risks whilst others are not, even when they share the same interests, values and knowledge, is difficult using Beck’s theoretical framework. As Lupton (1999, page 62) argues, “a usual response to grave dangers is to deny their existence as a kind of psychological self-protective mechanism, an attempt to maintain a sense of normality”. As she says, Beck accepts this (see Beck, 1995, pages 42–57). He argues that in the most “hopelessly hazardous situations … there is a growing tendency not merely to accept the hazard, but to deny it by every means at one’s disposal” (pages 48–49). He even makes the point that the imperceptibility of danger could in principle make this easy, but comes back again to the idea that we confront unavoidable risk decisions in day-to-day scenarios: “The lake one was about to leap into is revealed as a sewer, the superb, crispy lettuce in one’s mouth turns out to be contaminated and foul” (page 55). The “tolerance of despoliation and hazards”, says Beck, “wears thin only where people see their way of life jeopardized, in a manner they can both know and interpret, within the horizon of their expectations and valuations” (page 46). I have highlighted throughout that, where risks are not directly confronted and are uncertain, the operation of economic power becomes more important. One dimension to how power operates under these circumstances has recurred throughout the paper: the ability to **create and manage fantasies about catastrophe**. The more sophisticated the **technologies** used to **rationalise risk** become, the more significant what it **cannot model** becomes. Various approaches to psychoanalysis have examined how **fantasy creates both** **what is feared** (its ‘horrific’ dimension) **and the pacifying solution that relieves this fear** (its ‘beautific’ dimension). This is true of Kleinian psychoanalysis (eg, Klein, 1946, page 6), but particularly of contemporary Lacanian psychoanalysis, which has dealt with images of catastrophe specifically. This provides tools to explore in more depth Beck’s category of ‘things we are unwilling to know’. The Lacanian social theorist Slavoj Žižek (2008, page xii), for example, adds another category—‘unknown knowns’—to Donald Rumsfeld’s typology of knowledge. Žižek argues that when gaps appear in the symbolic order (in this case rationalising risk discourses) fantasy operates to conceal the true horror of the Lacanian Real; that which cannot be articulated. Žižek (2008, pages 5–6) provides the **example** of **safety demonstrations on aeroplanes**. These demonstrations do not serve to pacify our true fears about a crash landing, but to construct the horrific scenario. The true horror remains our inability to know how the crash scenario will play out. Precisely **the same is true of NASA’s Environmental Impact Statements, which are known to be fabrications but are still preferred to uncertainty** (the UN demands an impossible risk assessment that is probabilistic and geographically limited). The image of a **collision** **cascade** in orbit taking out global communications is also a **fantasy**, as are Haynes’s and McKay’s mutant bacteria. These fantasies each allow us to contemplate uncertainty. But each has a different effect, engineered and selected to function in the interests of those in power. Environmental Impact Assessments provide scenarios that legitimate State acquiescence to capital. They cover over not only science’s failings, but also those of the State and capital in turn. **They function to draw activists into** what Beck (1995, page 42) describes as “**orgies of mathematics and science” that work to prevent a truly reflexive discussion of risk**. Whilst informed activists engage with these scenarios as though they were rationalities (and, for example, demand to see more of the information on which they are based), less informed members of the public leave them to it. **Collision cascade fantasies and solutions for them in the form of fantastic technologies also sustain a relationship between capital and the State in which disaster and solution must be conceived within the existing regime governing space activities**. Not many people have direct economic interests in planetary engineering as yet, bar a marginal group of scientists. Desiring an impossible knowledge, these fantasies give scientists recourse to seek further funding (though more advanced modelling will make the unknown more, not less, terrifying), whilst at the same time making any politicisation of their work seem absurd. Meanwhile, the notion of **planetary engineering itself functions as a fantasy sustaining our unsustainable relationship with the Earthly environment**. Such fantasies are especially effective in **immobilising** public concern because of their remote setting in outer space. Space colonisation advocate Kraaft Ehricke (1972) referred to the development of outer space as the ‘benign industrial revolution’ precisely because it removed the negative consequences of industrial activity to a place where they no longer mattered. The same principle underpinned proposals to dump nuclear waste in outer space. Such a manoeuvre is a form of Beck’s “**symbolic detoxification**”, and the relationship between purity, exclusion, and avoidance has been tackled in the literature on risk (eg, Douglas, 1992; Joffe, 1999). Conclusion I have argued that, whilst many of the descriptive concepts established in Beck’s world risk society thesis can capture the existing state of risk beyond the globe, these risks reveal some of the problems with Beck’s theoretical understanding of risk politics. Contrary to Beck’s understanding, I have argued that there is nothing inevitable about these issues entering into a cosmopolitan public sphere. I have argued that this is especially true given the economic interests that keep uncertainty about these risks away from the public. I recommend that **we should remain sceptical about apparently cosmopolitan international cooperation regarding risk in outer space**, arguing that **this exists only where the interests of states and capital coincide**. I have also outlined some of the ways in which **space activity is** set to increase in order to resolve Earthly problems. These necessarily entail new and **increased risk**s, and are not the result simply of overspecialised science, but are **driven by the need for new capital fixes**. Because of the existence of these mechanisms, it cannot be trusted that progress will be made through the inevitable functional realignment of risk politics. The influence of power on risk politics beyond the global level must instead be recognised and collectively challenged, and **especially the function of fantasy** within this. An equal and open discussion of both the ‘goods’ and ‘bads’ (to use Beck’s terms) produced by space activity can only proceed on this basis.

#### The repetition of drives makes life the enemy and causes extinction

Themi 08 (Tim, Prof @ Deakin U, “How Lacan’s Ethics Might Improve Our Understanding of Nietzsche’s Critique of Platonism: The Neurosis & Nihilism of a ‘Life’ Against Life,” *Cosmos and History: The Journal of Natural and Social Philosophy* 4.1-2, 2008) SJBE, recut from Harvard BoSu

For to circle in too close to the Thing which is ethically forbidden by our reality principles––yet too the real truth of much desire––does hardly give us pleasure at all but anguish of the heaviest kind. Even if done so only as a thought experiment; as a free-association. So go there we generally don’t, and our ‘realities’ reflect as much. But henceforth when desire builds up, damns and flares return of the Thing: this is how Lacan specifically characterises the move we might make that goes beyond the pleasure principle, whose other name for Freud is ‘death-drive’. There where there is no, not pleasure yet jouissance in the transgression that the Thing would bring, a jouissance of transgression which Lacan suggests is the most direct satisfaction of a drive humanly possible[48]. But it’s also one perhaps unconsciously masochistic, that which Freud writes up as being only preliminarily sadistic, in eventually expressing itself as an “unconscious need for punishment”[49]. And if indeed we are feeling guilty, then we may yet still seek to pay the price. Why? For unknowingly possessing and inadvertently re-accessing this Thing in our real, beyond the pleasure-reality principle, our moral transgressions casting shadow long into the unconscious we know next to nothing about, and refuse even to acknowledge.¶ Could it not be thusly then that our time is behind now a sadomasochistic, wilfully ignorant drive towards death for nigh the entire species? Such punishment would too overly suffice, to be sure, for even a two-millennium length in repression…¶ But with our advancements in technological power outmatching by far any correlative advance in the awareness gained as a whole of our prehistoric Thing within: the great 21st century ecological disaster that too many academics and activists now increasingly predict, seems more than just a little possible. But to this increasingly macabre scenario, we must also add the renewed proliferation of nuclear weapons which occurs, no less, amidst a world where vital resources for energy and democracy are wearing thin[50]. For just such reasons, wilful ignorance of the Thing now bares results which Lacan’s Ethics reveals as far too terrifyingly possible to rationally accept; given that we have the Thing armed to the teeth now from that primitive id-like part of the brain, with no Sovereign Good, and all the way into a nuclear age.¶ CONCLUSION: THE NEUROSIS & NIHILISM OF A ‘LIFE’ AGAINST LIFE.¶ This is why Lacan proposes that his enquiry into ethics must be one to go “more deeply into the notion of the real”(LE:11). Further into what he would rather call the real, given that previous notions of ‘nature’ have been too far ‘different’––from being far too Platonic––than his own; and because it’s the very exclusions in these previous notions which upon return, as return of excess, are yielding our most tragic problems.¶ Today when faced with problems of the magnitude of global warming––a special but by no means solo case of adverse environment change at present due to our physical treatment of the planet––we often think the answer is to be more moral, more good, and we are thankful when exponents of the Good in some way bring attention to the problem. However, the idea of the Good as introduced by Plato, and nigh all of its descendants whether secular, rationalist, religious or not, continue to predicate themselves on a radically false picture of the human-condition: if not still of the entire cosmos––which only then lines itself up aside of an age-old repression, a repression of das Ding, that Freudian Thing in our inner real which, when it returns after being disavowed and denied in the name of the Good too long, is even more devastating.¶ Presently we are accelerating along the path of what Lacan discloses as our civilisation’s “race towards destruction”, a “massive destruction”, “a resurgence of savagery”, snaking the paths traced out before us by the centuries long dominion of Western morality [51]; and the nihilism detected by Nietzsche before the turn of the 20th has never threatened to reach such the grand finale. But what I would have us take from this enquiry here is that this is not because we aren’t in accordance enough with a moral ideal of the Sovereign good, but rather, it’s because we aren’t in accordance enough with a proper understanding of the real. It’s because we still at some level think that being more moral, in accordance with the Good’s inherited repressive structures towards our drives, desire, and truthfulness about the real, is actually the answer to––rather than the source of––our most tragic problems.¶ The goal here is by no means then to encourage all to let their Things run wild––which would probably be nothing short of an instant conflagration––but this is why and precisely why we must desist from deluding ourselves under the tightening grip of a Sovereign Good, for this is precisely the move which cuts the Thing loose after pressing down for far too long, a slippery hand’s palming on the coils of a spring, forever readying the subsequent explosion. For when that which is really real––as opposed to what Christian-Platonism falsely called the ‘real’––is forced from mind, it can’t really disappear because it is real, and it tends to end up only in our gun-sights as an imaginary overlaying of an external other, when the signifier ‘enmity’ appears. The earth itself can even seem like the enemy after while, one which like Plato in his Phaedo, we might think then to escape from “as if from a prison”, and especially from “the bonds of the body”, in the hope that we may live one day without the earthly altogether[52]. Following such negations to their logical conclusion, life itself becomes enemy too, for as being made up of the earthly and organic, life could never be free of what it is in essence. And what is the death-drive Freud tells from the start, if not to return us sundry to that dust-bowl of the inorganic; as per that “second death”[53] fantasm Lacan salvages from the Monstre de Sade, which wills to go beyond the destruction of mere beings, by destroying too the principle from which fresh sets could emerge. Such negative devaluations of our earthly, organic life though are really of our own construction: as de Sade, like any pervert, is only the mirror which shows expressed what Platonic-neurotics are but hide inside––a cess-pit of loathing contempt for life, built up from the unconscious and disowned, distorted and damned up, built up, instinctual-ideational elements of their own subjective psyches, phobically ferocious of that Thingly real lying not so dormant, and readying within…¶ But is it now still possible as Nietzsche teaches to say ‘Yes’ to the real of nature both without and within––to return to it!––even though it is more frightful and we are less guaranteed protection of it than the Platonic history of metaphysicians taught? For with the further disclosures of The Ethics of Psychoanalysis––Lacan’s following up and extension of the meta-ethical implications of Freud: perhaps even Nietzsche, our great intellectual übermensch, may too have bitten off more snake-head than he could chew? From certain moments in Nietzsche’s texts we can perhaps interpret that he may have had this Thing in his sights, but saw nothing much to come of it, so instead, elected to turn away, though not without some perhaps hinted at self-amusement.[54]¶ But with psychoanalysis, rightly or wrongly, such truths are out. It doesn’t seem all positive at first, and perhaps it never entirely will. But we must not let this deeper disclosure desist us now from the core Nietzschean project of locating and overcoming the nihilism which begs us to take cover in idealising fictions, as if life as life is not worth living. Not because nihilism and the annihilation of the species is wrong in the sense of being immoral, but rather because it is bad art, mediocre art, and the ‘knowledge’ claims it trumpets on should only make us flare. If we are at our full intellectual and creative will to power, we can only consider such cultural-civil regressions as we saw on display with that whole propaganda comedy that surrounded the war for more oil in Iraq as infantile; the hapless results of sibling rivalries gone too far astray. But we must also resist being caught up in the imaginary of those who would only re-preach to us now of a return to the Good, who would only redeploy such versions of nihilism’s precursory defensive fictions, the pernicious ones, which would only then re-falsify our data, and leave us disappointed when the truth then re-emerges. Doing more harm than good does Platonism in the end by leaving us untrained for the real, with the habit instead to take some truth as ‘error’, and error as ‘truth’––as ‘real’––to the point even of epistemic dysfunction. Take the grotesque intellectual poverty of that whole Christian middle-ages for example, whence put into relation with the heights of Aristotle and his fellow Greeks, as Augustine and Aquinas amplified some of the worst bits of Platonism, and threw the rest into abyss.¶ The overcoming of the moralising good of Christian-Platonism though does by no means imply then a subsequent affirmation of all that brutal Roman like greed, slavery, decadence, circus-bread corruption and mindless colonial expansion that we’ve heard all about, and are hardly so free of with our corporate today––just ask a Latin-American for instance![55] For it is possible within the perspectives opened up by Nietzsche, Freud, Lacan, as Silvia Ons puts it, to view a social-historical or individual neurosis of any kind: including the expressed acted-out, perverse-sadistic form that escapes when the Good is temporarily loosed of its repressive grip––and say to the would be Platonist: ‘No, not that, that’s not a cure, that’s a mirage; that’s sheer fantasy, resentment, spite; that’s not a cure it will only make things worse; worse in a different way, but worse nonetheless!’¶ By greater mindfulness then, with guided affirmation towards even that fearsome Freudian Thing that The Ethics of Psychoanalysis has us find now in our inner natures: we can eventually again say ‘Yes’-to-life in such the way that it overcomes the nihilism of not caring too much whether we as individuals or species live or die, whether we as culture or civilisation advance or decline. But we can only do this with fullest efficacy by freeing ourselves of all that wasted neurosis sickness that feels it must deny our Thing like aspect of the real: because from all those Christian-Platonic prejudices of the Good, it has been taught that such ‘things’ are too far beneath it. We must continue instead to train ourselves to stare the real directly in the face, without flinching, and that’s all we can do at least to start. For unless we can continue to utilise, sublimate, enjoy and get a positive, well-guided jouissance out of all aspects of life––including that Freudian Ding in our real––then the chances are we’re going to be at least in part, happy enough in no longer living it: offering not even a puff of genuine political praxis! We either face up to the death-drive snaking long beneath the dank, hidden history of the un-real, anti-real Good of Platonism––or let the disowned, un-understood drive resurge of its own volition until it accidentally finishes us!

#### Vote negative to embrace the lack – this requires being open to the anxiety that occurs from an encounter with the other and breaks down fantasy and drives.

McGowan 13 Todd McGowan, 2013, “Enjoying What We Don’t Have: The Political Project of Psychoanalysis,” University of Nebraska Press/Lincoln and London, SJBE

The alternative — the ethical path that psychoanalysis identifies — demands an embrace of the anxiety that stems from the encounter with the enjoying other. If there is a certain ethical dimension to anxiety, it lies in the rela- tionship that exists between anxiety and enjoyment. Contra Heidegger, the ethics of anxiety does not stem from anxiety’s relation to absence but from its relation to presence — to the overwhelming presence of the other’s enjoyment. In some sense, the encounter with absence or nothing is easier than the encounter with presence. Even though it traumatizes us, absence allows us to constitute ourselves as desiring subjects. Rather than producing anxiety, absence leads the subject out of anxiety into desire. Confronted with the lost object as a structuring absence, the subject is able to embark on the pursuit of the enjoyment embodied by this object, and this pursuit provides the subject with a clear sense of direction and even meaning. This is precisely what the subject lacks when it does not encounter a lack in the symbolic structure. When the subject encounters enjoyment at the point where it should encounter the absence of enjoyment, anxiety overwhelms the subject. In this situation, the subject cannot constitute itself along the path of desire. It lacks the lack — the absence — that would provide the space through which desire could develop. Consequently, this subject confronts the enjoying other and experiences anxiety. Unlike the subject of desire — or the subject of Heideggerean anxiety — the subject who suffers this sort of anxiety actually experiences the other in its real dimension.¶ The real other is the other caught up in its obscene enjoyment, caught up in this enjoyment in a way that intrudes on the subject. There is no safe distance from this enjoyment, and one cannot simply avoid it. There is nowhere in the contemporary world to hide from it. As a result, the contem- porary subject is necessarily a subject haunted by anxiety triggered by the omnipresent enjoyment of the other. And yet, this enjoyment offers us an ethical possibility. As Slavoj Žižek puts it, “It is this excessive and intrusive jouissance that we should learn to tolerate.”27 When we tolerate the other’s “excessive and intrusive jouissance” and when we endure the anxiety that it produces, we acknowledge and sustain the other in its real dimension.¶ Tolerance is the ethical watchword of our epoch. However, the problem with contemporary tolerance is its insistence on tolerating the other only insofar as the other cedes its enjoyment and accepts the prevailing symbolic structure. That is to say, we readily tolerate the other in its symbolic dimen- sion, the other that plays by the rules of our game. This type of tolerance allows the subject to feel good about itself and to sustain its symbolic identity. The problem is that, at the same time, it destroys what is in the other more than the other — the particular way that the other enjoys.¶ It is only the encounter with the other in its real dimension — the encounter that produces anxiety in the subject — that sustains that which defines the other as such. Authentic tolerance tolerates the real other, not simply the other as mediated through a symbolic structure. In this sense, it involves the experience of anxiety on the part of the subject. This is a difficult posi- tion to sustain, as it involves enduring the “whole opaque weight of alien enjoyment on your chest.”The obscene enjoyment of the other bombards the authentically tolerant subject, but this subject does not retreat from the anxiety that this enjoyment produces. If the embrace of the anxiety that accompanies the other’s proximate enjoyment represents the ethical position today, this does not necessarily provide us with an incentive for occupying it. Who wants to be ethical when it involves enduring anxiety rather than finding a way — a drug, a new authority, or something — to alleviate it? What good does it do to sustain oneself in anxiety? In fact, anxiety does the subject no good at all, which is why it offers the subject the possibility of enjoyment. When the subject encounters the other’s enjoyment, this is the form that its own enjoyment takes as well. To endure the anxiety caused by the other’s enjoyment is to experience one’s own simultaneously. As Lacan points out, when it comes to the enjoyment of the other and my own enjoyment, “nothing indicates they are distinct.” Thus, not only is anxiety an ethical position, it is also the key to embracing the experience of enjoyment. To reject the experience of anxiety is to flee one’s own enjoyment.¶ The notion that the other’s enjoyment is also our own enjoyment seems at first glance difficult to accept. Few people enjoy themselves when they hear someone else screaming profanities in the workplace or when they see a couple passionately kissing in public, to take just two examples. In these instances, we tend to recoil at the inappropriateness of the activity rather than enjoy it, and this reaction seems completely justified. The public display of enjoyment violates the social pact with its intrusiveness; it doesn’t let us alone but assaults our senses. It violates the implicit agreement of the public sphere constituted as an enjoyment-free zone. And yet, recoiling from the other’s enjoyment deprives us of our own.¶ How we comport ourselves in relation to the other’s enjoyment indi- cates our relationship to our own. What bothers us about the other — the disturbance that the other’s enjoyment creates in our existence — is our own mode of enjoying. If we did not derive enjoyment from the other’s enjoyment, witnessing it would not bother us psychically. We would sim- ply be indifferent to it and focused on our own concerns. Of course, we might ask an offending car radio listener to turn the radio down so that we wouldn’t have to hear the unwanted music, but we would not experience the mere exhibition of alien enjoyment through the playing of that music as an affront. The very fact that the other’s enjoyment captures our attention demonstrates our intimate — or extimate — relation to it. This relation becomes even clearer when we consider the epistemo- logical status of the enjoying other. Because the real or enjoying other is irreducible to any observable identity, we have no way of knowing whether or not the other really is enjoying. A stream of profanity may be the result of someone hurting a toe. The person playing the car radio too loud while sitting at the traffic light may have simply forgotten to turn down the radio after driving on the highway. Or the person may have difficulty hearing. The couple’s amorous behavior in public may reflect an absence of enjoyment in their relationship that they are trying to hide from both themselves and the public.¶ Considering the enjoyment of the other, we never know whether it is there or not. If we experience it, we do so through the lens of our own fantasy. We fantasize that the person blasting the radio is caught up in the enjoyment of the music to the exclusion of everything else; we fantasize that the public kisses of the couple suggest an enjoyment that has no concern for the outside world. Without the fantasy frame, the enjoying other would never appear within our experience.¶ The role of the fantasy frame for accessing the enjoying other becomes apparent within Fascist ideology. Fascism posits an internal enemy — the figure of the Jew or some analogue — that enjoys illicitly at the expense of the social body as a whole. By attempting to eliminate the enjoying other, Fascism hopes to create a pure social body bereft of any stain of enjoy- ment. This purity would allow for the ultimate enjoyment, but it would be completely licit. This hope for a future society free of any stain is not where Fascism’s true enjoyment lies, however. Fascists experience their own enjoyment through the enjoying other that they persecute. The enjoy- ment that the figure of the Jew embodies is the Fascists’ own enjoyment, though they cannot avow it as their own. More than any other social form, Fascism is founded on the disavowal of enjoyment — the attempt to enjoy while keeping enjoyment at arm’s length. But this effort is not confined to Fascism; it predominates everywhere, because no subjects anywhere can simply feel comfortable with their own mode of enjoying.¶ The very structure of enjoyment is such that we cannot experience it directly: when we experience enjoyment, we don’t have it; it has us. We experience our own enjoyment as an assault coming from the outside that dominates our conscious intentions. This is why we must fantasize our own enjoyment through the enjoying other. Compelled by our enjoyment, we can’t do otherwise; we act against our self-interest and against our own good. Enjoyment overwhelms the subject, even though the subject’s mode of enjoying marks what is most singular about the subject.¶ Even though the encounter with the enjoying other apprehends the real other through the apparatus of fantasy, this encounter is nonetheless genuine and has an ethical status. Unlike the experience of the nonexistent symbolic identity, which closes down the space in which the real other might appear, the fantasized encounter with the enjoying other leaves this space open. By allowing itself to be disturbed by the other on the level of fantasy, the subject acknowledges the singularity of the real other — its mode of enjoying — without confining this singularity to a prescribed identity.¶ The implications of privileging the encounter with the disturbing enjoy- ment of the real other over the assimilable symbolic identity are themselves disturbing. The tolerant attitude that never allows itself to be jarred by the enjoying other becomes, according to this way of seeing things, further from really encountering the real other than the attitude of hate and mis- trust. The liberal subject who welcomes illegal immigrants as fellow citizens completely shuts down the space for the other in the real. The immigrant as fellow citizen is not the real other. The xenophobic conservative, on the other hand, constructs a fantasy that envisions the illegal immigrant awash in a linguistic and cultural enjoyment that excludes natives. This fantasy, paradoxically, permits an encounter with the real other that liberal tolerance forecloses. Of course, xenophobes retreat from this encounter and from their own enjoyment, but they do have an experience of it that liberals do not. The tolerant liberal is open to the other but eliminates the otherness, while the xenophobic conservative is closed to the other but allows for the otherness. The ethical position thus involves sustaining the liberal’s toler- ance within the conservative’s encounter with the real other.

## Case

### FW

#### Three framing issues on the util debate:

#### 1] Value to life comes first – there’s no point of living if every action we take is cruel optimism, which means that any risk of the k being true comes at a prior question

#### 2] The K also has an extinction impact and controls the root cause to the aff because things like accumulation of nuclear weapons, climate change, etc. are all examples of trying to fulfill the lack

#### 3] You can’t weigh extinction vs the kritik if your research paradigm or form of the 1AC is in itself a desire to fulfill the lack, which gives meaning to the ballot and should be reject

Yes 1ar theory but not auto drop the arg

### Space War

#### Interdependence checks space war.

**Hall 15** [Luke Penn-Hall 15, Analyst at The Cipher Brief, M.A. from the Johns Hopkins School for Advanced International Studies, B.A. in International Relations and Religious Studies from Claremont McKenna College, “5 Reasons “Space War” Isn’t As Scary As It Sounds”, The Cipher Brief, 8/18/2015, <https://www.thecipherbrief.com/article/5-reasons-%E2%80%9Cspace-war%E2%80%9D-isn%E2%80%99t-scary-it-sounds>] recut Adam

The U.S. depends heavily on military and commercial satellites. If a less satellite-dependent opponent launched an anti-satellite (ASAT) attack, it would have far greater impact on the U.S. than the attacker. However, it’s not as simple as that – for the following reasons:

1. An ASAT attack would likely be part of a larger, terrestrial attack. An attack on space assets would be no different than an attack on territory or other assets on earth. This means that no space war would stay limited to space. An ASAT campaign would be part of a larger conventional military conflict that would play out on earth.

2. Every country with ASAT capabilities also needs satellites. While the United States is the most dependent on military satellites, most other countries need satellites to participate in the global economy. All countries that have the technical ability to play in this space – the U.S., Russia, China and India - also have a vested interest in preventing the militarization of space and protecting their own satellites. If any of those countries were to attack U.S. satellites, it would likely hurt them far more than it would hurt the United States.

3. Destruction of satellites could create a damaging chain reaction. Scientists warn that the violent destruction of satellites could result in an effect called an ablation cascade. High-velocity debris from a destroyed satellite could crash into other satellites and create more high-velocity debris. If an ablation cascade were to occur, it could render certain orbital levels completely unusable for centuries.

4. Any country that threatened access to space would threaten the global economy. Even if a full-blown ablation cascade didn’t occur, an ASAT campaign would cause debris, making operating in space more hazardous. The global economy relies on satellites and any disruption of operations would be met with worldwide disapproval and severe economic ramifications.

5. International Prohibits the Use of ASAT Weapons. Several international treaties expressly prohibit signatory nations from attacking other countries’ space assets. It is generally accepted that space should be treated as a global common area, rather than a military domain.

While it remains necessary for military planners to create contingency plans for a, space war it is a highly unlikely scenario. All involved parties are incentivized against attacking. However, if a space war did occur, it would be part of a larger conflict on Earth. Those concerned about the potential for war in space should be more concerned about the potential for war, period.

#### Deterrence solves.

**Evanoff 19** [Kyle Evanoff, Kyle is a research associate in international economics and U.S. foreign policy at the Council on Foreign Relations “Big Bangs, Red Herrings, and the Dilemmas of Space Security”, Council on Foreign Relations, 6/27/2019, <https://www.cfr.org/blog/big-bangs-red-herrings-and-dilemmas-space-security> accessed 12/11/21] Adam

More important, U.S. policymakers should avoid making decisions on the basis of a possible, though highly improbable, space Pearl Harbor. They should recognize that latent counterspace capabilities—as exemplified in 2008’s Operation Burnt Frost, which saw the United States repurpose a ballistic missile interceptor to destroy a satellite—are more than sufficient to deter adversaries from launching a major surprise attack in almost all scenarios, especially in light of the aforementioned deep interdependence in the space domain. Adding to the deterrence effect are uncertain offensive cyber capabilities. The United States continues to launch incursions into geopolitical competitors’ critical systems, such as the Russian power grid, and has demonstrated a willingness to employ cyberattacks in the wake of offline incidents, as it did after Iran shot down a U.S. drone last week. Unlike in the nuclear arena, where anything short of the prospect of nuclear retaliation holds limited dissuasive power, space deterrence can stem from military capabilities in various domains. For this reason, an attack on a U.S. satellite could elicit any number of responses. The potential for cross-domain retaliation, combined with the high strategic value of space assets, means that any adversary risks extreme escalation in launching a major assault on American space architectures. Again, well-conceived diplomatic efforts are useful in averting such scenarios altogether.

### Collisions

#### Squo debris thumps

**Wall 21** [Mike Wall, Michael Wall is a Senior Space Writer with [Space.com](http://space.com/) and joined the team in 2010. He primarily covers exoplanets, spaceflight and military space. He has a Ph.D. in evolutionary biology from the University of Sydney, Australia, a bachelor's degree from the University of Arizona, and a graduate certificate in science writing from the University of California, Santa Cruz. 11/15/21, "Kessler Syndrome and the space debris problem," Space, [https://www.space.com/kessler-syndrome-space-debris accessed 12/10/21](https://www.space.com/kessler-syndrome-space-debris%20accessed%2012/10/21)] Adam

Earth orbit is getting more and more crowded as the years go by. Humanity has launched about 12,170 satellites since the dawn of the space age in 1957, [according to the European Space Agency](https://www.esa.int/Safety_Security/Space_Debris/Space_debris_by_the_numbers) (ESA), and 7,630 of them remain in orbit today — but only about 4,700 are still operational. That means there are nearly 3,000 defunct spacecraft zooming around Earth at tremendous speeds, along with other big, dangerous pieces of debris like upper-stage rocket bodies. For example, orbital velocity at 250 miles (400 kilometers) up, the altitude at which the ISS flies, is about 17,100 mph (27,500 kph). At such speeds, even a tiny shard of debris can do serious damage to a spacecraft — and there are huge numbers of such fragmentary bullets zipping around our planet. ESA estimates that Earth orbit harbors at least 36,500 debris objects that are more than 4 inches (10 centimeters) wide, 1 million between 0.4 inches and 4 inches (1 to 10 cm) across, and a staggering 330 million that are smaller than 0.4 inches (1 cm) but bigger than 0.04 inches (1 millimeter). These objects pose more than just a hypothetical threat. From 1999 to May 2021, for example, the ISS conducted 29 debris-avoiding maneuvers, including three in 2020 alone, [according to NASA officials](https://www.nasa.gov/mission_pages/station/news/orbital_debris.html). And that number continues to grow; the station performed [another such move in November 2021](https://www.space.com/space-station-dodging-chinese-space-junk-spacex-crew-3), for example. Many of the smaller pieces of space junk were spawned by the explosion of spent rocket bodies in orbit, but others were more actively emplaced. In January 2007, for instance, China intentionally destroyed one of its defunct weather satellites in a much-criticized test of anti-satellite technology that generated [more than 3,000 tracked debris objects](https://swfound.org/media/9550/chinese_asat_fact_sheet_updated_2012.pdf) and perhaps 32,000 others too small to be detected. The vast majority of that junk remains in orbit today, experts say. Spacecraft have also collided with each other on orbit. The most famous such incident occurred in February 2009, when Russia's defunct Kosmos 2251 satellite slammed into the operational communications craft Iridium 33, producing [nearly 2,000 pieces of debris](https://swfound.org/media/6575/swf_iridium_cosmos_collision_fact_sheet_updated_2012.pdf) bigger than a softball. That 2009 smashup might be evidence that the Kessler Syndrome is already upon us, though a cataclysm of "Gravity" proportions is still a long way off. "The cascade process can be more accurately thought of as continuous and as already started, where each collision or explosion in orbit slowly results in an increase in the frequency of future collisions," [Kessler told Space Safety Magazine in 2012](http://www.spacesafetymagazine.com/space-debris/kessler-syndrome/don-kessler-envisat-kessler-syndrome/).

#### Untrackable debris thumps

Gourav Namta 19. Mechanical engineer. “Let's talk about space debris”, Sat Search, March 26th 2019, https://blog.satsearch.co/2019-03-26-lets-talk-about-space-debris.html

As harmless as those 128 million tiny objects ranging from 1 mm to 1 cm might seem, many of them are present in Low Earth Orbit traveling at speeds of approximately 17,500 mph (20x faster than a bullet). When even the smallest objects travelling at this speed collide with satellites or other technology, the results can be very serious. In 2016 for example a tiny object (likely a paint flake or small metal fragment) no bigger than few thousandths of a millimeter across caused a 7 mm diameter circular chip in the cupola window of the International Space Station (ISS).